



## 2005-2006 CATALOG

Missouri State University  
901 South National Ave.  
Springfield, Missouri 65897  
[www.missouristate.edu](http://www.missouristate.edu)

See directory on page 3 for telephone numbers

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Edited by Kim R. Bell and Linda M. Johnson, Records and Registration

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# Directory of Correspondence

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Continuing Education and the Extended University, College of - Dr. J. Ronald Fairbairn, Dean .....	836-4127
Education, College of - Dr. David L. Hough, Dean .....	836-5254
Graduate College - Dr. Frank A. Einhellig, Dean .....	836-5335
Health and Human Services, College of - Dr. Cynthia L. Pemberton, Dean .....	836-4176
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Student Support Services - Alphonso Johnson, Director .....	836-6220
University College - Dr. Curtis P. Lawrence, Dean .....	836-5872
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Safety and Transportation - J. Gary Snavely, Director .....	836-5509
University Support Services - Dale L. Moore, University Facilities Analyst .....	836-4999
Web Services - Sara M. Clark, Director .....	836-5226
<b>Chief Financial Officer - D. Kent Kay</b> .....	<b>836-5632</b>
Bursar's office - Douglas B. Willson, Bursar .....	836-5128
Financial Services - Nila B. Hayes, Controller .....	836-5632
Financial Services - Janice K. Lewis, Director of University Accounting .....	836-5632
Procurement Services - Brenda K. Lanning, Director .....	836-5260
ZipCard Office - Wendell Northrip, Director .....	836-8409
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Mountain Grove Research Campus - Dr. Innocent Onwueme, Associate Dean For Agriculture Sciences/Fruit Science Department Head .....	926-4105
Sponsored Research and Programs - Dr. William A. Alter, Director .....	836-5972
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Career Center - Jack M. Hunter, Director .....	836-5636
Counseling and Testing Center - Dr. Douglas E. Griener, Director .....	836-5116
Dean of Students Office - Dr. Earle F. Doman, Dean of Students .....	836-5527
Disability Services - Katheryne Staeger-Wilson, Director .....	836-4192
Enrollment Services - Donald E. Simpson, Assistant Vice President for Enrollment Management and Services/Director of Admissions .....	836-5521
Health and Wellness Center - Burnie L. Snodgrass, Director .....	836-4000
International Student Services - Janet S. Swann, Director .....	836-6618
Judicial Programs - Michael J. Jungers, Assistant Dean of Students/Director .....	836-6937
Multicultural Student Services - Charlotte C. Hardin, Director .....	836-6618
Plaster Student Union - Thomas Lane, Assistant Dean of Students/Director .....	836-5886
Records and Registration - Kim R. Bell, Registrar .....	836-5589
Residence Life and Services - Gary K. Stewart, Director .....	836-5536
Student Academic Support Services - Charlotte Hardin, Acting Assistant Vice President .....	836-6618
Student Financial Aid - Vicki S. Mattocks, Director .....	836-5262
Student Orientation (SOAR) - TBA, Coordinator .....	836-7641
<b>University Advancement - Gregory P. Onstot, Vice President</b> .....	<b>836-6666</b>
Development and Alumni Relations - TBA, Director .....	836-4143
Intercollegiate Athletics - William L. Rowe, Director .....	836-5244
Juanita K. Hammons Hall for the Performing Arts/Hammons Student Center/Plaster Sports Complex - Randall R. Blackwood, Executive Director .....	836-5240
Women's Athletics - Dr. Darlene Bailey, Associate Director of Athletics/Senior Women's Administrator .....	836-5246
<b>West Plains Campus - Kent D. Thomas, Chancellor</b> .....	<b>255-7900</b>

**Telecommunications Device for the Deaf (TDD) locations:**

Admissions Office .....	(417) 316-4770	Morris Center for Continuing Education .....	(417) 836-8799
Assistive Technology Services .....	(417) 836-8795	Records Office .....	(417) 836-4770
Business Advisement Center, College of .....	(417) 836-6313	Residence Life and Services .....	(417) 836-5503
Deaf Relay Service:		Blair-Shannon House .....	(417) 836-8804
Voice .....	(800) 735-2466	Scholars House .....	(417) 836-8806
TDD .....	(800) 735-2966	Wells House .....	(417) 836-8835
Relay Missouri .....	(800) 735-2966	Woods House .....	(417) 836-8805
Disability Services .....	(417) 836-6792	Safety and Transportation Department .....	(417) 836-6793
Human Resources .....	(417) 836-6974	West Plains Campus .....	(417) 255-7940
Library .....	(417) 836-6794		

**Toll free numbers:**

Admissions Office .....	(800) 492-7900
Continuing Education Registration Services .....	(888) 879-7678
Financial Aid .....	(800) 283-4243
Graduate College .....	(866) 767-4723
Records Office .....	(800) 492-7900
Residence Life and Services .....	(800) 284-7535

## 2005–2006 Academic Calendar (see also <http://calendar.missouristate.edu/>)

### Fall 2005 Intersession

*The fall intersession is considered part of the fall semester for admission, financial aid, registration, grading, scholastic action, and graduation purposes.*

August 8	Intersession classes begin
August 19	Intersession classes end

### Fall 2005 Semester

July 20	Reinstatement application deadline
July 20	Application deadline (to avoid late fee)
August 19	Last day to register (to avoid late fee)
August 22	Fall semester classes begin
August 26	Last day to register or add classes
September 5	Labor Day holiday**
September 21	Grading options deadlines for first block classes: Drop with No-Penalty (automatic N grade), Pass/ Not Pass declaration, change to or from Audit
October 7	Last day to drop or withdraw from first block classes
October 11	First block classes end
October 12	Mid-semester/first block final exams
October 13	Second block classes begin
October 20-21	Fall Break*
October 26	Grading options deadlines for full semester classes: Drop with No-Penalty (automatic N grade), Pass/ Not Pass declaration, change to or from Audit
November 15	Grading options deadlines for second block classes: Drop with No-Penalty (automatic N grade), Pass/ Not Pass declaration, change to or from Audit
November 23	Thanksgiving Vacation*
November 24-25	Thanksgiving Holiday**
December 2	Last day to drop or withdraw from full semester or second block classes
December 8	Fall semester classes end
December 9	Study Day*
December 10-15	Final exam period
December 15	Senior Banquet
December 16	Commencement

### Winter 2006 Intersession

*The winter intersession is considered to be a part of the spring semester for admission, financial aid, registration, grading, scholastic action, and graduation purposes.*

January 9	Intersession classes begin
January 13	Intersession classes end

### Spring 2006 Semester

December 20	Reinstatement application deadline
December 20	Application deadline (to avoid late fee)
December 24-	
January 2	Holiday Break**
January 13	Last day to register (to avoid late fee)
January 16	Martin Luther King, Jr. holiday**

January 17	Spring semester classes begin
January 23	Last day to register or add classes
February 15	Grading options deadlines for first block classes: Drop with No-Penalty (automatic N grade), Pass/ Not Pass declaration, change to or from Audit
February 20	Presidents Day holiday**
February 22	Monday evening classes meet. Wednesday evening classes do not meet (Evening = begins 4:00 p.m. or later)
March 7	Last day to drop or withdraw from first block classes
March 9	First block classes end
March 10	Mid-semester/first block final exams
March 13	Second block classes begin
March 18-26	Spring Break*
March 28	Grading options deadlines for full semester classes: Drop with No-Penalty (automatic N grade), Pass/ Not Pass declaration, change to or from Audit
April 13	Spring Holiday*
April 14	Spring Holiday**
April 20	Grading options deadlines for second block classes: Drop with No-Penalty (automatic N grade), Pass/ Not Pass declaration, change to or from Audit
May 5	Last day to drop or withdraw from full semester or second block classes
May 11	Spring semester classes end
May 12	Study Day*
May 13-18	Final exam period
May 18	Senior Banquet
May 19	Commencement

### Summer 2006 Intersession

*The summer intersession is considered to be a part of the summer session for admission, financial aid, registration, grading, scholastic action, and graduation purposes.*

May 22	Intersession classes begin
May 29	Memorial Day holiday**
June 9	Intersession classes end

### Summer 2006 Session

*Dates refer to the full eight-week session. Shorter sessions are offered running concurrently with the full session. See the summer class schedule for further information.*

May 20	Reinstatement application deadline
May 20	Application deadline (to avoid late fee)
June 12	Summer session classes begin
June 13	Last day to enroll in eight-week, five-week or first four-week session classes
July 4	Independence Day Holiday**
August 2	Summer session classes end
August 3-4	Final exam period
August 4	Commencement

\*Classes will not meet.

\*\*Classes will not meet and University offices closed.

*Fee payment deadlines and refund deadlines for drops and withdrawals are in the appropriate semester class schedules which are available on the web site at [www.missouristate.edu/classsschedule](http://www.missouristate.edu/classsschedule).*



Jane A. Meyer Carillon

## University Profile



### University Mission

The Missouri State University mission statement has been reduced to one sentence for use on campus and with various constituent groups. That one sentence reads:

***Missouri State University is a multi-campus metropolitan university system with a statewide mission in public affairs whose purpose is to develop educated persons while focusing on five themes: professional education, health, business and economic development, creative arts, and science and the environment.***

The one-sentence statement is useful for key constituent groups: governmental leaders, alumni, students, faculty, staff, community leaders, etc. This one sentence captures the essence of the full mission statement which elaborates on the single sentence version.

In addition to being memorable, the one-sentence mission statement also has meaning in every word.

Missouri State's three campuses operate as a system under the direction of a Coordinating Council composed of representatives from each of the three campuses in Springfield, Mountain Grove, and West Plains.

The University is a member of a national organization of metropolitan universities. Universities with this designation meet specific criteria and serve a special niche in higher education.

Metropolitan universities, no matter where they are located around the world, deal with the themes identified in the mission: professional education, health care, business and economic development, performing arts, science and the environment, and public affairs.

In 1995, the Missouri General Assembly passed legislation giving Missouri State a statewide mission in public affairs. Governor Carnahan signed that bill into law on the campus of Missouri State University in June of that year.

The purpose of the public affairs mission is to develop citizens of enhanced character, more sensitive to the needs of community, more competent and committed in their ability to contribute to society, and more civil in their habits of thought, speech, and action. These goals are realized in the curriculum, extra curricular activities, and an emphasis on community service in a variety of ways.

The University understands its task of developing educated persons to include adding to the store of human understanding through research, and drawing from that store of understanding to provide service to the community which supports it. The educated person is literate in the broadest sense, understands the beauties of citizenship and the challenges of public problems, has the capacity to continue to learn

throughout life, and is able to solve problems through the mastery of an academic discipline. In all of its programs, both undergraduate and graduate, the University is committed to the use of the most effective and regularly evaluated methods of discovering and imparting knowledge, and to the appropriate use of technology in support of these activities.

The University functions through a three-campus system. These structures complement one another to address the needs of the metropolitan area they jointly serve. The system includes a selective admissions campus in Springfield, a two-year open admissions campus at West Plains, and a research campus at Mountain Grove.

### Declaration of University Community Principles

#### Preamble

Community, civility, and the search for knowledge and truth are the essence of University Life. A community is a group of people who hold something fundamental in common. A University is a community whose common purpose is the creation, preservation, and sharing of knowledge and understanding. The search for knowledge and truth requires a rational discourse. This in turn requires honesty and civility. Civility springs from the concept of respecting the rights of individuals. The community helps to protect the rights of the individual. Thus the community promotes the civility necessary to engage in the pursuit of truth. The three are thus connected.

The primary participants of this community are administrators, students, faculty, and staff, who themselves come from a variety of external communities. Before becoming a part of the community of scholars that is Missouri State University, whether as a member of the student body, faculty, administration, or staff, one should understand the full nature of that choice. The community derives its strength from each individual. Each individual derives strength from his/her association with the community. The individual must sustain the community in order for the community to protect and sustain the individual. In order for this interaction to take place, the principles stated in this document must be the foundation for the community of scholars. Behaving civilly implies acting in a manner consistent with these principles and encouraging these behaviors in others. Adherence to the principles is voluntary and cannot be compelled. Choosing to accept the direction of the principles strengthens both the individual and the community, but only when the choice is not forced. Discovering the natural benefit of these principles is a virtue. These principles are of little use in themselves; they must be practiced.

## Principles

The community of scholars that is Missouri State University is committed to developing educated persons. It is believed that educated persons will accept responsibility to act in accordance with the following principles:

**Practicing personal and academic integrity.**

**Being a full participant in the educational process, and respecting the right of all to contribute to the "Marketplace of Ideas."**

**Treating all persons with civility, while understanding that tolerating an idea is not the same as supporting it.**

**Being a steward of the shared resources of the community of scholars.**

Choosing to accept these principles suggests that each participant of the community refrains from and discourages behavior that threatens the freedom and respect each member deserves.

## Missouri State University System

Missouri State University campuses are structured to address the special needs of the urban and rural populations they serve. The Springfield Campus is a selective admissions, graduate level teaching and research institution. The West Plains Campus is an open admissions campus serving seven counties in south central Missouri. The Mountain Grove Campus serves Missouri's fruit industry through operation of the State Fruit Experiment Station. The Extended Campus provides anytime, anyplace learning opportunities through telecourses, Internet-based instruction and through its interactive video network (BearNet) and subnetworks (GrizzNet and VineNet). In addition, the university operates several special campuses to meet the needs of Missourians and students. The university also operates the Bull Shoals Field Station near Forsyth, Baker's Acres and Observatory near Marshfield, and the Graduate Center in Joplin.

### Springfield Campus

The Springfield Campus is oriented toward and identifies with its region, proudly and by deliberate design. University programs respond to regional needs while striving for national and international excellence. The University is an intellectual and creative resource for the Springfield metropolitan area, contributing to its economic development, social health, and cultural vitality through education, research, and professional outreach. The University is committed to collaborate and cooperate with the many communities and clientele in the metropolitan region and to help bridge the socio-economic, cultural, and political gaps that exist among them. The University continues to shape and adapt its structures, policies, and practices to enhance its effectiveness as a key institution in the lives of citizens in the Springfield region.

The central campus in Springfield is a comprehensive, master's level, selective admissions campus with a statewide mission in public affairs. The campus offers baccalaureate, master's, and specialist in education degrees, and is the host site for a cooperative doctorate degree in educational leadership with the University of Missouri-Columbia.

In 1995, the Coordinating Board for Higher Education designated Missouri State University as a graduate level, selective admissions institution with a statewide mission in public affairs providing programmatic access to southwest Missouri. Mission enhancement funds were provided enabling the institution to begin serving the state's need for a high quality undergraduate/graduate institution. Subsequent actions by the Coordinating Board for Higher Education have positioned the University as the public higher education provider of graduate programs in southwest Missouri. As a result, the Springfield Campus has become the major graduate education provider, offering 42 master's degree programs and working with the University of Missouri System to provide

other cooperative master's and doctoral level programs as required and appropriate. Graduate students make up more than 15 percent of the campus's total student population.

Even with these changes, undergraduate education remains a priority, and implementation of selective admissions standards have been and will continue to be made, with a sensitivity to the needs of the 24-county service area.

### Highlights

(from the *Fact Book*, Fall 2004)

- The Springfield campus contains 38 educational and general buildings and 18 auxiliary enterprise facilities.
- Currently, 4,073 students are living in University housing, including about 2,100 first-time freshmen.
- The University has almost 2.6 million square feet of assignable building space.
- The Meyer Library contains over 1.7 million books and government documents, and has over one million microform documents. The Library was visited by over 600,000 patrons during 2003-04.
- The fall 2004 enrollment on the Springfield campus of 19,114 students included 1,124 minority students and 467 nonresident aliens.
- All of Missouri's 114 counties were represented in the student body of the Springfield campus with 30 counties contributing 100 or more students.
- In addition to Missouri, 48 states and 81 countries were represented in the fall enrollment.
- Of the \$108.3 million in financial aid awarded to students at the Springfield campus in fiscal year 2004, 43 percent was based on need.
- The College of Business Administration had the most majors, 4,316 followed by the College of Natural and Applied Sciences with 2,634.
- The Springfield campus had 726 full-time instructional faculty in fall 2004, of which 40 percent were female and 64 percent were tenured.
- The University had 2,007 full-time employees and another 796 employees working part-time in 2004-2005. Thirty-six percent of the full-time staff were classified as instruction/research.
- In 2004, 73 percent of the full-time faculty held doctorate degrees. Almost 51 percent of the executive and professional staff (specialist/support) held degrees beyond the bachelor's degree.
- The University offers baccalaureate degrees in 83 disciplines and master's degrees in 40 disciplines. An educational specialist degree in Educational Administration and a Doctor of Audiology degree are also available.
- Majors may be selected from a total of 106 different program areas. The University also provides pre-professional programs for students planning to enter fields such as dentistry, engineering, journalism, law, medicine, and theology.
- In fiscal year 2004, 3,265 degrees were conferred bringing the cumulative total to 96,762.

### Downtown

In 1996, Missouri State University and Springfield entered into an agreement to direct future university expansion away from neighborhoods and toward the downtown area located northwest of campus. That agreement, reflected in both the Master Plan Visioning Guide and the Vision 2020 Springfield-Greene County Comprehensive Plan, has led the university to assess the desirability/feasibility of acquiring and/or leasing properties in the downtown area for future growth. The Missouri State University-Springfield Master Plan Visioning Guide has been formally adopted by the Springfield Planning and Zoning Commission and the Springfield City Council. To ensure orderly development in the downtown area, the university has added a downtown planning element to its Master Plan Visioning Guide.

The university operates from a mix of owned and leased space in downtown Springfield. The Missouri State University Foundation owns the 81,000-square-foot Alumni Center and adjacent parking garage, and the University owns the 62,500-square-foot Jim D. Morris Center for Continuing Education and two nearby surface parking lots. The university and the Foundation have invested heavily in infrastructure to support these facilities and to link them to the central campus. In addition, the University is leasing approximately 60,000 square feet to support numerous university programs, including the Institute for School Improvement and the department of art and design.

Generally, downtown activities and facilities will be located along the Jefferson Avenue corridor. The university will continue to make strategic investments in new and leased facilities based on demonstrated need and as directed by the following objectives:

- to provide metropolitan education opportunities for students, specifically with regard to metropolitan issues, service learning, and public affairs
- to provide affordable, high-quality space for academic and auxiliary programs
- to ensure that the University is able to expand as required while, at the same time, fulfilling its obligations as outlined in the Phelps Grove agreement with the City of Springfield
- to serve as a stimulus for the revitalization of downtown Springfield
- to fulfill the university's metropolitan mission of contributing to the economic development, social health, and cultural vitality of the region

These objectives are based in large part on a workable, affordable, long-term partnership with the City of Springfield, the Springfield School District, Ozarks Technical Community College, and the many public and private entities that have an impact on the development of downtown Springfield.

In accord with the five objectives, the university will continue to assess the feasibility/desirability of locating other university programs in downtown Springfield, as well as the possibility of expanding programs already located downtown. Further, the university shares the community's vision of downtown Springfield as an arts, entertainment and education center, and intends to be an active corporate partner in developing and revitalizing Springfield's center city area.

### **Baker Observatory**

The William G. and Retha Stone Baker Observatory is located approximately ten miles northwest of Marshfield in Webster County (off Missouri Highway 38 on Hillcrest Road). The observatory is equipped with a 14-inch Schmidt Cassegrain and a 16-inch Cassegrain telescope. The 16-inch (0.4 meter) reflecting telescope (with CCD attached camera) is on loan from Cerro Tololo Inter-American Observatory in Chile. The CCD camera makes this telescope as powerful as a 100-inch (2.5-meter) telescope.

The observatory is used on clear evenings for laboratory work by students in beginning and intermediate astronomy courses, and by advanced undergraduate students and faculty conducting astronomical research. The observatory houses many smaller telescopes for students to use in addition to the two large instruments. The public may visit the observatory and view the night sky through telescopes, either at open houses or during the Ozarks Amateur Astronomers Club meetings. Open houses are conducted by the Department of Physics and Astronomy twice each year, in April or May, and in September or October. Admission is free.

### **Bull Shoals Field Station**

The primary purpose of the Bull Shoals Field Station is to address the theme in science and the environment by providing a location for faculty,

students, and visiting scientists to conduct research and educational programs that promote understanding of southwest Missouri ecosystems. The Station, which began operations in spring 1999, exists through a cooperative agreement between the University and the Missouri Department of Conservation and the U.S. Army Corps of Engineers. The Corps owns the five acres of land the University occupies and the Department of Conservation has provided the university access to 5,600 acres of land at the Drury-Mince Wildlife Area.

The Bull Shoals Field Station affords excellent opportunities for student and faculty research, field courses, and public service. Research at the Field Station will provide answers to questions about organisms in their native habitats and solutions to problems resulting from the rapidly changing environment of the Ozarks region.

### **Darr Agriculture Research and Demonstration Center**

Agriculture is a key economic component of the University's 24-county service region. Springfield is home to significant agricultural businesses and government agencies that provide trade and service centers for producers, manufacturers, and consumers. These businesses and government agencies are valuable educational assets that allow students to participate in off-campus education activities such as field trips and internships. Together, the metropolitan location and the Darr Agriculture Research and Demonstration Center, located on a 125-acre site in southwest Springfield, provide students with access to numerous off-campus learning experiences while encouraging participation of business, industry, government and the general public in the educational process.

The agricultural programs in vegetable production, landscaping, and greenhouse plant production are vibrant in the metropolitan area. Animal husbandry concepts taught to satisfy requirements for students entering the workforce in the meat industry are being transferred to the knowledge that is required in the pet, exotic, and zoo animal industry. The equine industry, a traditionally rural enterprise, has become largely a metropolitan one for recreation or for therapeutic health purposes. Further, metropolitan areas place demands on the environment for activities such as outdoor recreation and waste management. These sensitive environmental activities can be aided by the use of traditional soil and crop management principles taught in agriculture to protect water quality and wildlife populations and habitats.

The Agriculture Research and Demonstration Center serves as a laboratory and field experience classroom for the study of livestock management, equine studies, horticulture, agronomy, animal science and wildlife conservation and management. An additional benefit of the center is that it provides agricultural/green space within the rapidly expanding Springfield metropolitan area. The university will improve the center through the renovation of existing facilities and development of new facilities as required. This includes the renovation of the Pinegar Arena located at the center, as well as the addition of support facilities including a stalling barn, a multi-use barn, and a machine storage building. In addition, the university will work with a number of partners to build a learning/service building at the center. The learning/service facility will provide for the citizens of Greene County and the surrounding area a one-stop service facility which will meet the educational, technical assistance and customer service needs for the following components of the community: agriculture, continuing education, community development, business and industry, human environmental sciences, horticulture and youth development. Partners in the facility include Missouri State University, the Greene County University of Missouri Outreach and Extension, and various agencies of the United States Department of Agriculture.



### West Plains Campus

The West Plains Campus is a two-year open admissions campus with a mission to provide quality educational opportunities to south central Missouri.

Specifically, West Plains Campus is structured to meet the needs of a seven-county rural area of south central Missouri within the larger Springfield metropolitan region. The West Plains Campus is mandated by state statute to offer one-year certificates, two-year associate degree programs, and credit and non-credit courses. The West Plains Campus is a host site for bachelor's and master's degree programs provided by the Springfield Campus through both on-site offerings and substantial use of distance learning technologies.

The West Plains Campus has separate accreditation through the Higher Learning Commission and currently offers three associate degrees – Associate of Arts in General Studies, the Associate of Science in Nursing, and the Associate of Applied Science – with 16 emphases/areas of specialization. The campus plays an integral role in the successful implementation of the overall System mission, serves as one major feeder for the Springfield Campus, and provides a site for the Springfield Campus to offer upper level and graduate programs.

Consistent with its mandated mission, the West Plains Campus provides educational opportunities via the GrizzNet, a subnetwork of the BearNet interactive video network; a mobile computer laboratory; university/community programs; and certificate programs, customized training programs, and non-credit outreach programs based on community needs.

### Mountain Grove Campus

The major activities on the 190-acre Mountain Grove Campus are the Missouri State Fruit Experiment Station, the department of fruit science, and the Mid-America Viticulture and Enology Center.

The Fruit Experiment Station was established in 1899 by an act of the Missouri Legislature. The legislature mandated that the station have a statewide mission to: "...experiment with the different kinds of fruits, to wit: Apples, peaches, berries of all kinds, grapes and small fruits of all kinds, and to ascertain the varieties that are the best adapted to this state..." The Missouri State Fruit Experiment Station promotes growth of the Missouri fruit crop industry through a long-term program of basic and applied research and an industry advisory program. Research, both basic and applied, is focused on pomology, enology, viticulture, plant pathology, entomology, molecular genetics and plant physiology.

The Mid-America Viticulture and Enology Center dedicated to improving product quality and profitability of the grape and wine industry through research, advisement, education and service. Goals of the Center include the development of an interstate research consortium and the coordination of cooperative advisory and educational programs to better serve the industry throughout the central United States.

In addition to its research mission, the Mountain Grove Campus supports a major fruit industry advisory program, including fruit crops, grapes and wine, and consumer education. The advisory program is accomplished through traditional on-site advisory classes and workshops coupled with interactive video and Internet based training. Interactive video training and education services are provided through VineNet, a subnetwork of the Extended Campus's interactive video network BearNet. Additional training is provided through Internet based online workshops.

In cooperation with the departments of agriculture, biology and chemistry, the department of fruit science at the Mountain Grove Campus offers classes and research as part of a cooperative master's degree in plant science, as well as a variety of undergraduate internships and a limited number of undergraduate classes. In addition, the Mountain Grove Campus serves as an extended campus for West Plains Campus to offer courses leading to the Associate of Arts in General Studies degree to residents of the Mountain Grove area. The Paul Evans

Library of Fruit Science supports the State Fruit Experiment Station, as well as the plant science master's degree students and West Plains students. Other educational opportunities available at the campus include a variety of undergraduate and graduate classes offered by the Springfield Campus through BearNet.

### Extended Campus

The Extended Campus is the term used to describe The University's commitment to provide anytime, anyplace learning opportunities. The Extended Campus provides a logical extension of the university's existing academic programs through distance learning technologies. The academic programs offered using distance learning have undergone the same academic review and scrutiny as academic programs offered on the traditional campuses.

The mission of the Extended Campus is to deliver high-quality, affordable educational services to learners anytime, anyplace. An array of distance learning technologies and delivery systems are available for use, including audioconferencing, radio, television (interactive video, telecourses, microwave), satellite transmission, audiocassette and videocassette programs, and a variety of computer-based systems, including synchronous and asynchronous computer conferencing.

The distance learning strategy of the Extended Campus centers about three major delivery systems: interactive video (BearNet and its subnets, GrizzNet and VineNet), Internet-based instruction (Missouri State Online), and telecourses.

BearNet is an interactive video network. The primary audience for BearNet is the traditional 24-county service area. However, BearNet is a robust and flexible network as demonstrated by its ability to support specialized subnetworks (such as GrizzNet) and to link with classroom sites from other states, as well as internationally.

The second major component of the Extended Campus is Missouri State Online, which allows students to earn academic credit by taking courses entirely on the Internet. A major feature of Internet-based instruction is that it can be asynchronous, meaning that students can access their courses anytime and anyplace via the Internet. This student-centered approach enables students to study and participate in discussions, whenever and wherever they choose. In addition, the University is offering a "virtual high school" program, Missouri Virtual School. The high school program focuses on science, math, and foreign languages.

The third major delivery system, telecourses, provides learners with the opportunity to take classes within their own home according to their own schedule (for example, by tape delay using VCRs).

The Extended Campus provides the same level of support services that faculty and students receive at the other System campuses. The Extended Campus has the administrative infrastructure (guidelines and policies for instruction), technology infrastructure (Internet access, computing/networking standards, help-desk services), faculty support (including access to and training in a variety of instructional media, library and other required resources), and student support services (advising, placement testing, library support, technical support, tutorial assistance in writing) necessary to meet the needs of distance learning students.

### BearNet

During the next six years, existing ITV networks, BearNet and its subnets, will migrate to an alternate delivery method, but the associated ITV rooms, while not increasing much, if any, will continue to be used on all three campuses for a variety of purposes. The need for "face-to-face" meetings involving small groups on one or both ends of the transmission will be ongoing. The infrastructure and delivery method will change considerably over the next six years from expensive circuit-based delivery to inexpensive Internet-based delivery. The quality of Internet-based delivery will continue to improve. Expanded bandwidth of the Internet and on-campus networks will allow significant growth to occur via streaming media to the "desktop." These systems will allow

connections to other “desktop” units or ITV rooms at the University and beyond.

Centralized scheduling of facilities will be key to efficient operations, with sharing of ITV rooms allowing these resources to be maximized.

### China Campus

Located in Dalian, China, the China Branch Campus is an educational cooperation project established in June 2000 between Liaoning Normal University and the Missouri State University System. Currently, the Branch Campus offers through the West Plains Campus a curriculum that will lead to an **Associate of Arts** degree in General Studies with an emphasis in business and a **Bachelor of Science** degree in General Business is offered by the College of Business Administration (COBA). Classes are open to Branch Campus students and to students from LNU or other institutions in China and other countries or regions in Asia.

### Other Education Centers

- Branson, MO – Skaggs Education Center
- Joplin, MO – Joplin Graduate Center, Missouri Southern State University campus
- Lebanon, MO – Nelson Education Center
- Monett, MO – Monett High School
- Neosho, MO – Crowder College campus
- Nevada, MO – Nevada Telecenter

In addition to expanding its capability of delivering telecommunications-based education, Missouri State University will assess the desirability and feasibility of opening new education centers and campuses based on demonstrated need. These centers and/or campuses could be local — i.e., within the university’s historic 24-county service in southwest Missouri — or they could be international.

### System Operation

System administration and coordination is the responsibility of the System Coordinating Council which reports to the Board of Governors through the System president. The Council, composed of representatives from all campuses, is responsible for developing administrative and support systems necessary to ensure that the campuses operate cooperatively, efficiently, economically and without duplication.

The System Coordinating Council provides effective administration of the system while requiring minimal administrative overhead. No positions have been or will be added for System purposes.

### University Setting

Missouri State is the second largest university in the state and the main campus is located in Springfield, the third largest population center in Missouri with a metropolitan statistical area population of 384,654. Supported by an industrial/manufacturing base and an expanding service industry in tourism, the community serves as a regional center for health and medical services for southwest Missouri, north-west Arkansas, southeast Kansas, and northeast Oklahoma. The second academic campus is located 110 miles southeast of Springfield in West Plains. This city of 10,800 serves as a regional hub for a seven county area of south central Missouri and several adjacent counties in north central Arkansas. The research campus of the University is in Mountain Grove, a city of 4,574, which is approximately halfway between Springfield and West Plains. The University’s primary service region of southwest Missouri has certain distinctive characteristics which influence various activities and programs of the institution.

The southwest region, the fastest growing area in the state with a population of approximately 900,000, has a unique cultural heritage, a significant agricultural economic base, and a rapidly expanding tourism and recreational industry. Educationally, the region is served by a diverse mix of both public and private colleges and universities. As the largest multipurpose university in southwest Missouri, the University provides educational leadership in the region.

### Support Programs

Support programs facilitate and support the activities of faculty and meet the extra-curricular needs of students. Programs providing supportive service are delineated into three areas: academic support, student services, and institutional support. Each area has a distinctive role within the University.

The role of **academic support units** is to provide direct service to the University’s programs of instruction, research and public service. The scope of this responsibility includes: (1) acquiring, preserving, and displaying published materials, art objects and scientific materials; (2) providing services to assist instruction and research activities; (3) administering academic programs; and (4) developing opportunities for the personal and professional growth of faculty.

The role of **student service units** is to develop the emotional and physical well-being of students as well as to contribute to their intellectual, cultural, and social development outside the context of the institution’s formal instructional program. The scope of this responsibility includes activities which provide: (1) personal services to students; (2) opportunities for student growth and development; and (3) services and conveniences needed by students as members of a resident and commuting student body.

The role of **institutional support units** is to provide for the University’s organizational effectiveness and continuity. The scope of this responsibility includes (1) planning and executive leadership; (2) administrative and logistical services; and (3) institutional advancement activities.

### Accreditations and Approvals

Missouri State University is accredited by The Higher Learning Commission and is a member of the North Central Association:

Higher Learning Commission  
30 N. LaSalle Street, Suite 2400  
Chicago, Illinois 60602-2504  
(800) 621-7400

Missouri State University is also professionally accredited or approved by the following organizations:

AACSB International – The Association to Advance Collegiate Schools of Business  
Accreditation Commission for Programs in Hospitality Administration  
The Accreditation Review Commission on Education for the Physician Assistant  
American Association of Family and Consumer Sciences  
American Association for Leisure and Recreation  
American Chemical Society  
American Speech-Language-Hearing Association  
Association for Educational Communications and Technology  
Commission on Accreditation of Allied Health Education Programs  
Commission on Accreditation for Dietetics Education of the American Dietetic Association (Developmental Status)  
Commission on Accreditation of Physical Therapy Education  
Commission on Collegiate Nursing Education  
Computing Accreditation Commission (CAC) of ABET  
Council on Accreditation of Nurse Anesthesia Educational Programs  
Council on Education of the Deaf  
Council on Social Work Education  
Missouri Department of Elementary and Secondary Education  
National Association for Industrial Technology  
National Association of Schools of Music  
National Association of Schools of Public Affairs and Administration  
National Association of Schools of Theatre  
National Council for Accreditation of Teacher Education  
National Recreation and Parks Association  
Planning Accreditation Board

## Affiliations and Memberships

Missouri State University and its faculty/staff hold continuing membership in the following professional organizations:

American Association of Colleges for Teacher Education  
 American Association of Collegiate Registrars and Admissions Officers  
 American Association of Higher Education  
 American Association of State Colleges and Universities  
 American Association of University Professors  
 American College Personnel Association  
 Association of Governing Boards of Universities and Colleges  
 Association of College and Research Libraries  
 Association of College and University Auditors  
 Association on Higher Education and Disability  
 Association of Veterans Education Certifying Officials  
 Better Business Bureau  
 Campus Compact  
 College and University Personnel Association  
 Council for Advancement and Support of Education  
 Council of Graduate Schools  
 Midwest Association of Student Financial Aid Administrators  
 Midwestern Association of Graduate Schools  
 Missouri Academic Advising Association  
 Missouri Association of Collegiate Registrars and Admissions Officers  
 Missouri Association of Faculty Senates  
 Missouri Association of Student Financial Aid Personnel  
 Missouri Campus Compact  
 Missouri College Personnel Association  
 National Academic Advising Association  
 National Association of College Admissions Counselors  
 National Association of College and University Business Officers  
 National Association of Student Financial Aid Administrators  
 National Association for Student Personnel Administrators  
 University Risk Management and Insurance Association

## John Templeton Foundation Recognition

In 1999, The John Templeton Foundation named Missouri State University to its "Templeton Guide: Colleges that Encourage Character Development," a designation received by 100 universities in the country. This is the second time the University has been honored by the foundation. Additionally, the University was one of only four public institutions nationwide to be selected for both the Templeton Honor Roll and the Presidential Leadership section. Four university programs also received recognition.

The mission of "The Templeton Guide" is to recognize colleges and universities that emphasize character building as an integral part of the college experience; provide students, families and high schools with a guidebook during the college selection process; and inspire colleges and universities to strengthen their character-building programs and activities.

Every two years, all four-year accredited undergraduate institutions in the United States are invited to apply for recognition by submitting evidence that addresses character-building criteria. The John Templeton Foundation was established in 1987 by international investment manager Sir John Marks Templeton. The Foundation is committed to a broad spectrum of activities, including studies, award programs and publications that promote the character development of young people in secondary schools, colleges and universities.

Assisting the University in achieving "The Templeton Guide" designation for the second time are its far-reaching curricular and co-curricular activities, according to "The Templeton Guide." The following five areas, ranging from volunteer services to faculty curriculum, were identified by the foundation:

**First-Year Programs:** These programs explore citizenship within university life and show students how to achieve personal and academic success.

**Faculty and Curriculum:** "The Templeton Guide" maintains that the University's public affairs focus is the integrating principle for the entire curriculum.

**Volunteer Service:** These programs link volunteers to areas within the community where their service is needed. The program is geared for students, faculty and staff.

**Student Leadership:** This area involves the Residence Hall Association and its efforts to increase student involvement on campus and to promote community living.

**Civic Education:** Citizenship and Service Learning, CASL, is an experiential learning program that joins a discipline-based course to benefit an external government or service organization.

The "Templeton Guide" contains profiles of 405 exemplary programs in 10 categories. Of these areas, four specific exemplary programs established by the University were recognized. They include: IDS 110 — a freshman course, Introduction to University Life, which is required of all entering freshmen and which promotes public affairs and civic responsibility — in the first-year program category; required Capstone courses in the senior-year program category; The Natural High Club in the substance abuse program category; and the previously mentioned Citizenship and Service Learning program, CASL, in the volunteer service program category.

## University Policies

In fulfilling its mission, the University adheres to a set of educational and administrative policies which is essential to the maintenance of a learning environment and which fosters a sense of community and public accountability. While it is impossible to specify all relevant University policies, the more salient ones are herein identified.

## Academic Accommodation of Students With Disabilities

### Mission

Missouri State University is committed to providing an accessible and supportive environment for students with disabilities. Equal access for qualified students with disabilities is an obligation of the University under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The University does not discriminate on the basis of disability against otherwise-qualified individuals in any program, service or activity offered by the University. The University is committed to insuring that no otherwise-qualified individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids or other appropriate services; however, accommodations cannot result in an undue burden to the University or fundamentally alter the requirements essential to a program of instruction. For a full statement of the rights and responsibilities of students with disabilities, and the rights and responsibilities of the University and its faculty, see our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = disability).

### Notifying Disability Services of a Request for Accommodation

Students requesting academic accommodations for a disability are responsible for notifying the University of their disability and their request for accommodations. To initiate a request for academic accommodations, students must contact Katheryne Staeger-Wilson, Director of Disability Services (DS), Plaster Student Union, Suite 405, (417) 836-4192 (voice) or (417) 836-6792 (TTY). The student should notify the Office of Disability Services as soon as the need for the academic accommodation becomes evident. In order to receive accommodations, students must provide disability documentation that meets University guidelines. Accommodations will not be provided for undocumented disabilities, except that accommodations may be provided on a provisional basis pending receipt of documentation for disabilities that are

readily apparent. Only persons interested in disability related accommodations or services need provide disability information. Accommodations must have a legitimate educational purpose, and cannot be based simply on applicants' preferences. Students must initiate a request for every semester in which accommodations are sought. If eligibility for services and the request for academic accommodations are approved, Disability Services or the Learning Diagnostic Clinic will provide the student a letter to be shared with instructors outlining the approved recommended accommodations.

### **DS Referrals to the Learning Diagnostic Clinic (LDC)**

Students seeking accommodation for any type of disability should direct the initial request for accommodation to Disability Services. DS refers students seeking accommodations for psychological or learning disabilities to the Learning Diagnostic Clinic.

### **Learning Diagnostic Clinic Testing Services**

The LDC provides assessments of learning and psychological disabilities. Students who simply wish to inquire about LDC's diagnostic or testing services do not need to seek referral through DS, but may instead directly contact the Learning Diagnostic Clinic, Alumni Center Suite 502. To inquire about testing services, contact Dr. Steve Capps, Director, LDC, (417) 836-4787 or visit our web site at [www.missouristate.edu](http://www.missouristate.edu) (keywords = learning diagnostic). The LDC charges a sliding-scale fee for its testing services.

### **Appeal Processes**

If the student's eligibility for services and/or request for academic accommodations are denied, Disability Services or the Learning Diagnostic Clinic will provide to the student written notification of denial, including the basis for denial as well as information on the appeal process. Student appeals related to eligibility for services or the request for academic accommodations shall be directed to Jana Estergard, Equal Opportunity Officer, Sicheluff Hall 296, 901 South National, Springfield, Missouri 65897, (417) 836-4252 (voice) or (417) 836-6874 (TTY). A faculty member who believes that accommodations recommended by DS or LDC can be shown to alter or compromise fundamental course or program goals has the right to appeal the provision of those accommodations; however, recommended accommodations should be provided until the appeal is resolved. A faculty member should first address his/her concerns through discussions with Disability Services or the Learning Diagnostic Clinic, and may initiate a formal appeal of a recommended academic accommodation by submitting a written statement to the Vice President for Academic Affairs (VPAA), clearly documenting the fundamental academic goals and demonstrating that the recommended accommodation necessarily compromises those goals. A faculty member who is not satisfied with the decision of the VPAA may file a grievance with Jana Estergard, Equal Opportunity Officer.

### **Academic Freedom**

The University is committed to freedom of thought and inquiry for both faculty and students. This commitment ensures the protection of the faculty's freedom to teach, research, and publish in their professional capacity without restraint or fear of reprisals. Academic freedom is essential to the University's instruction and research programs. Freedom in research is fundamental to the advancement of truth. Academic freedom in instruction is essential for the protection of the rights of faculty to teach and of the freedom of students to learn.

### **Accountability**

As a state-assisted university, Missouri State is accountable to various publics for the fiscal management of public funds, for educational outcomes relevant to individual and social needs, and for the effective administration of university programs. The University is committed to the concept of public accountability in its broadest sense, for it is the obligation of the institution, faculty and staff to produce outcomes

consistent with goals of the institution. Such a commitment obligates the University to: (1) define institutional goals and priorities; (2) determine the degree to which goals are achieved; (3) identify and measure the outcome of its programs; and (4) measure the costs and benefits of programs. Inherent in these obligations is a commitment to systematic institutional planning and to continuous program review and evaluation in order to ensure maintenance of quality and excellence.

### **Educational Accessibility and Opportunity**

The University is committed to educational accessibility for all students who have demonstrated, by traditional academic achievement (high school rank and/or standardized admission tests), an aptitude for successful accomplishment at the collegiate level. The University also provides educational access based on criteria other than traditional achievement measures (career life experiences, General Education Development examinations) for those students seeking learning opportunities for purposes of career enhancement, professional development, or self-enrichment. The University does not discriminate, on the basis of any category listed above, in its educational programs, services or activities. Inquiries may be directed to the Equal Opportunity Officer, Sicheluff Hall 296.

### **Educational Rights and Privacy**

The University complies with the Family Educational Rights and Privacy Act (FERPA) of 1974, as amended. In accordance with this federal law, the institution has adopted policies and procedures governing the confidentiality of student educational records. No individual shall have access to, nor will the institution disclose any information from, a student's educational record without the written consent of the *student* or as otherwise authorized by FERPA. Permitted exceptions under the law include disclosures to: university personnel who have a legitimate educational interest; officials of other institutions in which a student seeks enrollment; representatives of agencies or organizations from which a student has received financial aid; and certain federal and state officials. Information designated as directory information may also be released unless specifically prohibited by the student.

For distribution to the general public, the University has defined the following as **directory information**: (1) name, (2) local address, including campus email address, (3) local telephone number, (4) major field of study, (5) academic classification and enrollment status — part-time or full-time, (6) participation in recognized activities and sports, including photographs of athletes, (7) dates of attendance (including matriculation and withdrawal dates), (8) degrees, certificates and awards received, including scholastic honors, departmental honors, memberships in national honor societies, and athletic letters, (9) inclusion of an individual in a group photo. If issues of health and safety can be documented, campus community and law enforcement personnel may also be provided an individual photo. Further, the University releases lists of students who qualify for the Deans' List as well as lists of graduates to newspapers which cover the permanent address of record. With appropriate student approval, indications of religious preference along with name, address, and local telephone number can be distributed to the Campus Ministries Association.

Directory information can be disclosed by the University for any purpose in its discretion, without the consent of a student. Students have the right, however, to refuse to permit the release of name, address, and telephone number (Privacy Hold), or all of the directory information (FERPA Hold). In that case, this information will not be disclosed except with the consent of the student or as otherwise allowed by FERPA.

Students desiring to have directory information withheld from disclosure must submit written notification requesting a Privacy Hold or a FERPA Hold with the University during regular business hours. Forms for this purpose are available in the Office of Student Affairs, Carrington Hall 200. The written notification does not apply retroactively to previous releases of directory information (e.g., once the Campus Directory has

been printed). To prevent publication of directory information in the Campus Directory, written notification must be filed no later than the second week of classes during the fall semester. In the event a refusal to disclose is not filed, the University assumes that a student does not object to the release of the designated directory information.

Further information about education records and the process of obtaining access to records may be obtained from the Office of Student Affairs and on the website (Keyword=FERPA).

### Equal Employment Opportunity

The University is committed to nondiscrimination and equal employment opportunities and to affirmative action programs designed to strengthen this commitment. The University takes affirmative action to provide equal opportunity in all personnel related activities administered by the institution. This commitment includes the intent to maintain an environment free from discrimination, including harassment, as authorized in the University's Nondiscrimination Policy. Inquiries regarding the University's affirmative action program or compliance with Title VI, Title IX, Section 504, the Age Discrimination Acts, and the Americans with Disabilities Act may be addressed to Jana Estergard, Equal Opportunity Officer, Sicheluff Hall 296, 901 S. National Ave, Springfield, Missouri 65897, (417) 836-4252.

### Liability Protection

Because only officers or employees of the University are generally covered by the legal expense fund, students involved in internships or cooperative employments with other organizations are advised to provide for their own liability insurance through their cooperative employer/internship sponsor, through professional organizations, or personally.

### Nondiscrimination Policy

Missouri State University is a community of people with respect for diversity. The University emphasizes the dignity and equality common to all persons and adheres to a strict nondiscrimination policy regarding the treatment of individual faculty, staff, and students. In addition, in accord with federal law and applicable Missouri statutes, the University does not discriminate on the basis of race, color, religion, sex, national origin, ancestry, age, disability, or veteran status in employment or in any program or activity offered or sponsored by the University. The University maintains a grievance procedure incorporating due process available to any person who believes he or she has been discriminated against. Missouri State University is an Equal Opportunity/Affirmative Action employer. Inquiries concerning the grievance procedure, Affirmative Action Program, or compliance with federal and state laws and guidelines should be addressed to Jana Estergard, Equal Opportunity Officer, Sicheluff Hall 296, 901 South National Ave, Springfield, Missouri 65897, (417) 836-4252.

### Resource Management

The University is committed to the concept that future growth and selective development in areas of excellence must be based on present and potential strengths which relate to the institution's physical, financial, and human resources. This commitment has several implications for University programs and services. Resource allocation decisions must be guided by an explicit statement of goals and priorities for the future.

## Disclosures

### Public Availability of Safety Reports

Under the ruling of U.S. District Court for the Western District of Missouri, security records, including personally identifiable information regarding students, are available for public disclosure and release. The judicial order requires this disclosure under the Missouri Sunshine Law (construed to protect the name and address of a victim whose identifiable assailant is still at large). Missouri State University has adopted security records access release guidelines which are available from the custodian of records, Carrington Hall 205, between 8 a.m. and 5 p.m. Monday through Friday

### Annual Security Report

Missouri State University, in compliance with Part II of the Federal Student Right-to-Know and Campus Security Act of 1990 publishes an Annual Security Report. It provides applicants, students, and employees with the University safety policies, resources, and crime statistics. Copies are available in the Office of Admissions, Dean of Students Office, and in the Department of Safety and Transportation. The Annual Security Report is also available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=security).

### Crime Reporting

Any individual on the Missouri State University campus who is a victim of or observes any criminal activity should report the incident immediately to the Springfield Police Department by dialing 911.

### Institutional Report Card Summary – Academic Year 2003-2004

Title II, Sections 207 and 208 of the Higher Education Act of 1998 requires each institution of higher education which conducts a teacher preparation program to annually disclose specific information about that program. The following information fulfills that requirement.

#### Pass Rate

The pass rate for the completers of the teacher preparation programs at Missouri State University was 98 percent as compared to the statewide average of 98 percent. These data were compiled for the completers from the Fall 2003, Spring 2004, and Summer 2004 semesters.

#### Program Information

In the Fall 2003 semester, 2,191 undergraduate students and 864 graduate students were enrolled in professional education programs. For the Spring 2004 semester, 2,065 undergraduate students and 785 graduate students were enrolled. And during the Summer 2004 term, 666 undergraduate students and 558 graduate students were enrolled. Every student will have a total of 560 hours of supervised teaching experience by the conclusion of his/her program of study. There were 450 students in programs of supervised student teaching during the year, and the student to faculty ratio during the supervised teaching was 9.0:1.

#### Accreditation Statement

All of the teacher preparation programs offered by the University are accredited by the Missouri State Department of Elementary and Secondary Education and by the National Council for Accreditation of Teacher Education.

## Governance

Missouri State University is under the general control and management of a Board of Governors selected from throughout the state which is charged with the responsibility and authority to adopt administrative policies and procedures relevant to the management of the University. The seven voting members of the Board are appointed by the Governor, by and with the advice and consent of the Senate, to serve six-year terms. Two appointments are normally made every biennium during a regular session of the General Assembly. A student member of the Board is appointed by the Governor for a two-year term.

The President is the chief executive officer of the University System and is responsible to the Board of Governors for the recommendation of and administration of institutional policies and operation. The senior administrative officers of the University serve as an advisory body to the President and are responsible for specific operational divisions of the University. The Faculty Senate is an elected body of academic faculty established to provide a means of dealing with curricular matters and the concerns of the faculty. The Graduate Council is an elected body of graduate faculty established to address matters concerning graduate education (programs, curricula, and policies). The Staff Senate is an elected body from the University support staff which addresses concerns related to staff. The Student Government Association provides the means by which students can participate in campus governance, in student discipline and in the management of student activities.

To formulate policy, to facilitate decision making and to promote a spirit of collegiality, the University is committed to participatory governance and to an open system of communication throughout the University.

### The Board of Governors



Thomas J. Carlson  
Springfield  
2003-2008



Michael J. Duggan  
Chesterfield  
2002-2008



Gordon A. Elliott  
Springfield  
2005-2011



Michael L. Franks  
Neosho  
President  
2001-2007



Carol S. Pinegar  
Springfield  
2005-2011



Mary H. Sheid  
West Plains  
Vice President  
2001-2007



Phyllis A. Washington  
Kansas City  
2003-2009



Ryan A. Sivill  
Student Member  
Chillicothe  
2005-2007

### President



Dr. Michael T. Nietzel

## Admission



The Missouri State University system welcomes applications from qualified students. Our objective is to provide educational opportunities within the system for all students, either through the selective admission Springfield Campus or the open admission West Plains Campus.

Admission requirements for the Springfield Campus are described below. For information on West Plains Campus admission requirements, please refer to the West Plains Campus section of this catalog.

### Freshman Admission

To qualify for admission, students must be graduates of accredited high schools\* and meet the high school core curriculum and selection index requirements, as follows.

#### High School Core Curriculum

The following high school core curriculum, developed by the Missouri Coordinating Board for Higher Education, is required for admission to the Springfield Campus.

**English:** Four units, two of which must emphasize composition or writing. One unit may be speech or debate.

**Mathematics:** Three units at the high school algebra level and beyond, including algebra II.

**Social Studies:** Three units, including American history and at least one semester of government.

**Science:** Two units, not including general science. One unit must be a laboratory course.

**Visual and Performing Arts:** One unit.

**Additional Core Courses:** Three units selected from foreign language and/or a combination of two or more of the areas listed previously. Computer science (if algebra I is a prerequisite), state history, and international history are also acceptable as electives.

If you have questions regarding acceptability of courses to the core curriculum, please consult with your high school counselor or call the Office of Admissions.

*\*Students who will graduate from non-accredited high schools, including home schooled students, are encouraged to contact the Office of Admissions regarding admission requirements and options.*

#### Selection Index

Eligibility for admission is based on a selection index, which is the sum of a student's class rank percentile and ACT or SAT percentile\*. The selection index requirement is 107 for fall 2005 through summer 2006 and 108 for fall 2006 through summer 2007. Students may also qualify on a corresponding combination of high school grade point average and test score.

If you have questions regarding your eligibility, please consult with your high school counselor or call the Office of Admissions. That office has a chart which shows the qualifying combinations of class rank or grade point average and ACT or SAT score. The chart is also available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=application for admission).

Students who have received a General Educational Development (GED) diploma will be evaluated on the basis of their GED scores and ACT or SAT scores. GED scores are converted to a class rank equivalency for admission purposes.

The selection index for fall 2008 and future semesters will be available from the Office of Admissions at least one year in advance and will be on the university web site.

*\*The ACT/SAT requirement is waived for admission purposes for students age 22 and older and for international students.*

#### College Credit

Students who have taken courses for college credit are expected to have a grade point average of 2.00 or higher on transferable courses.

### Admission Options

Our Admission Committee will consider requests for admission as an exception to the requirements described above. Students who wish to submit an appeal should consult the admission policy on the web or contact the Office of Admissions for information on the procedure they should follow. The deadline to submit an appeal is April 1 for the summer and fall semesters and December 1 for spring semesters.

Students who are approved as exceptions by our Admission Committee will be required to participate in our Alternative Admission Program (AAP). A satisfactory performance in this program will qualify students to enroll for subsequent semesters. Missouri high school graduates who have completed the core curriculum but are not approved for fall semester admission may begin during the summer session through the AAP to demonstrate their promise for academic success.

### Transfer Admission

Students who have completed 24 or more transferable credit hours subsequent to graduation from high school with at least a 2.00 cumulative grade point average are guaranteed admission as transfer students. Students with fewer than 24 transferable credit hours must also meet the freshman admission requirements.

### Applying for Admission

Applications for admission are available from the Office of Admissions and from most Missouri high schools and community colleges. An on-line application is also available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=application for admission). Application deadlines are July 20 for fall semesters, December 20 for spring semesters, and May 20 for summer sessions. Students are encouraged to apply up to one year in advance. Early applicants may receive advantages in registration, housing, and financial aid.

Admission decisions are made on a rolling basis after necessary information is received by the Office of Admissions. Students who apply while still in high school may be admitted on a pending basis but must supply an official, final high school transcript verifying graduation and completion of the 16 unit high school curriculum to complete their admission. Students who apply while enrolled at another college or university may also be admitted on a pending basis but must supply an official, final transcript verifying an overall grade point average of 2.00 or higher on transferable courses to complete their admission.

If you have questions regarding admission policies or procedures or wish to request an application for admission, admission guide (viewbook), or undergraduate catalog, please call the Office of Admissions at 417/836-5517 or 800/492-7900 or write to:

Office of Admissions  
Missouri State University  
Carrington Hall 204  
901 S. National Ave  
Springfield, MO 65897

Information about the University is available on our web site. In addition, you may send inquiries via e-mail to [info@missouristate.edu](mailto:info@missouristate.edu).

### Campus Visit

We encourage and welcome all prospective students to visit our campus. To assist us in planning your campus visit, please call the Office of Admissions ten days in advance of your visit. You may also schedule your visit online at [www.missouristate.edu/visit](http://www.missouristate.edu/visit).

### Admission to Program

**Admission to the University does not guarantee admission to a specific degree program.** Some programs, such as the Sports Medicine and Athletic Training major, Nursing major, majors within the College of Business Administration, the School of Social Work, the School of Communication Studies, and the Teacher Education Program, have grade point average and test score requirements higher than the minimum required for admission. Some programs, such as Sports Medicine and Athletic Training, Nursing, and Early Childhood Education, have enrollment limits. Students should refer to the appropriate sections of this catalog for program admission requirements.

### Orientation for Freshmen and Transfer Students

#### Freshmen\*

New freshmen are required to participate in a "Student Orientation, Advisement and Registration" (SOAR) program. Non-traditional students (includes students age 22 and older, evening students, married students, and students with children) may, as an alternative, register through the orientation and registration services provided by the Office of Adult Student Services. Students who are admitted late and/or cannot attend a SOAR program or register through Adult Student Services may not register until after the last scheduled SOAR program for the semester.

Exceptions to the above policy must be approved by the Orientation Coordinator.

#### Transfer Students\*

Transfer students may register with currently enrolled students based on credit hours completed and will be provided with registration instructions following their admission. All new transfer students, regardless of the number of hours completed, must have an advisor's release prior to registering.

Resources and information specifically for transfer students can be found online at [www.missouristate.edu/transfer](http://www.missouristate.edu/transfer). Instructions regarding registration procedures and requirements can be found at [www.missouristate.edu/classschedule](http://www.missouristate.edu/classschedule).

*\* Students are classified as freshmen if they enter having completed fewer than 24 transferable college credit hours subsequent to graduation from high school. Students who enter having completed 24 or more transferable college credit hours subsequent to graduation from high school are classified as transfer students.*



## Nondegree Seeking Undergraduate Students

Students who are 18 years of age or older and who wish to take courses but do not plan to pursue a degree may be admitted as nondegree undergraduates without providing transcripts. Students in this classification may enroll for up to 8 credit hours per semester, may earn a maximum total of 24 credit hours, and are not eligible for financial aid. Students who later decide to seek a degree must meet requirements for regular admission as either freshmen or transfer students. Individuals interested in admission under this classification should contact the College of Continuing Education and the Extended University at 417/836-4126 or toll-free at 888/879-7678 for information.

Students with a bachelor's degree who do not wish to pursue an additional degree will be admitted under the postbaccalaureate classification (see below).

## Postbaccalaureate Students

Students who have a bachelor's degree and wish to return to take additional courses but do not wish to pursue an additional degree may enroll as postbaccalaureate students without providing transcripts. Postbaccalaureate students may take either undergraduate or graduate courses (courses numbered 500 and higher automatically carry graduate credit for students in the postbaccalaureate classification and will be calculated in the graduate GPA). The only limitation is that no more than 9 hours of graduate credit may be accumulated under this classification. A maximum of 9 hours of graduate credit earned as a postbaccalaureate student can be applied toward a graduate degree, and this application of credit is contingent upon program requirements. Individuals interested in admission under this classification should contact the College of Continuing Education and the Extended University at 417/836-4126 or 888/879-7678 for information. Generally, students in the post-baccalaureate classification are not eligible for financial aid.

Individuals who have a bachelor's degree, are seeking either initial certification to teach in Missouri or additional endorsements to an existing teacher certification, and are not enrolled in a degree program should contact the Teacher Certification Office, 417/836-8772. This office provides a program evaluation service (a \$40 fee is charged for this service), as well as advisement and assistance to students seeking certification. Generally, teacher certification students are admitted under the postbaccalaureate classification. Official transcripts from all previous colleges attended are required for students seeking initial certification.

## Adult Students

Adult, non-traditional, and part-time students interested in undergraduate programs should contact Adult Student Services/Evening College, Carrington Hall 422, 417/836-6929. Adult Student Services/Evening College sponsors adult student orientation programs each fall and spring semester to assist adult/non-traditional students who wish to learn more about the University, learn ways to improve their chances for success with college work, and meet other students who have similar concerns. Please refer to the index for more information about Adult Student Services.

## Precollege Enrollment

Highly qualified high school juniors and seniors may be admitted under the campus-based (dual enrollment) or the high school-based (dual credit) Precollege Programs. Students must have completed their sophomore year of high school, have at least a 3.00 cumulative grade point average on a 4.00 scale, and have an ACT composite score of 21 or higher (or an equivalent score on the PLAN, PSAT, or SAT). Freshman or sophomore students may qualify for the high school-based (dual credit) program by scoring at the 90th percentile or above on the ACT or SAT. Students must have written permission from a parent/guardian and written permission from a high school official (i.e., superintendent, principal, assistant principal, or counselor). Course selection(s) must be approved by the student's designated academic advisor.

Students interested in the campus-based precollege program or a combination of the campus-based and high school-based programs should contact the University College Office at 417/836-5258. Students interested strictly in the high school-based (dual credit) program should contact the College of Continuing Education and the Extended University at 417/836-4128 or toll free 888/879-7678.

## Graduate Students

Students interested in graduate programs are encouraged to contact the Graduate College at 417/836-5335 or toll free at 866/767-4723 for details regarding the admission policies and procedures, applications, and for a copy of the Graduate Catalog. Information regarding graduate programs and graduate admission is also on our web site at [graduate.missouristate.edu](http://graduate.missouristate.edu).

## International Students

International students may apply as English language students, first-time freshmen, transfer, postbaccalaureate, or graduate students. However, application procedures and deadlines are different. Interested international students should submit an online application, download the application materials from our web site at <http://international.missouristate.edu> or contact the Office of International Student Services to request application materials. **The deadlines for submitting applications are April 15 for the fall semester and September 1 for the spring semester.** The University is authorized under federal law to enroll non-immigrant alien students.

**Demonstration of English language proficiency** is required of all international student applicants.

Required Scores	Undergraduate (paper-based)	Undergraduate (computer-based)
ELI	Completion of Level 4	
TOFEL	500+	173+
IELTS	5.0+ paper based	

Required Scores	Graduate (paper-based)	Graduate (computer-based)
ELI	Completion of Level 5	
TOFEL	550+	213+
IELTS	6.0+ paper based	

The English requirement for all levels can also be met by completing the Missouri State University English Language Institute, a full-time intensive English program. For more information, see the ELI web site at <http://ccpe.missouristate.edu/eli/>. Missouri State also accepts ELS level 109 for proof of English of undergraduate applicants only. In order to manage enrollment, the University expects undergraduate international students to have earned at least a 2.50 cumulative GPA (on a 4.00 scale) on prior course work. Official transcripts from all previous institutions attended must be on file with the Office of International Student Services. Policies stated regarding international admission supercede related policies stated elsewhere in this publication.

**Requests for information** may be submitted by fax at 417/836-7656, by telephone at 417/836-6618, through our web site at <http://international.missouristate.edu>, or by email at [InternationalStudentServices@smsu.edu](mailto:InternationalStudentServices@smsu.edu). Applications may be submitted on-line, by postal mail, or by fax followed by mailed originals.

## Returning Students

**Readmit Students:** Students returning to the University who are in good academic standing and plan to return under the same classification may register without applying for readmission. Students who have attended another accredited institution since leaving will be required to provide official transcripts by the Office of Admissions or the Graduate College. Registration instructions are included in the semester class schedule, available from the Office of Records and Registration, and are available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=registration). Other students should call the appropriate office based on the admission classification under which they plan to return, as follows:

**Undergraduate, degree-seeking:** Office of Admissions, 417/836-5517 or 800/492-7900. A readmission application is available online at [www.missouristate.edu/apply](http://www.missouristate.edu/apply).

**Graduate, degree-seeking:** Graduate College Office, 417/836-5335 or 866/767-4723.

**International:** Office of International Student Services, 417/836-6618.

**Nondegree undergraduate or postbaccalaureate:** College of Continuing Education and the Extended University, 417/836-4126 or 888/879-7678.

Students who plan to apply for financial aid are encouraged to initiate the admission and registration processes well in advance of the semester for which they plan to return.

**Reinstatement Students:** Students who were suspended following their last semester of enrollment must first adhere to the Academic Status policy as described in the "Academic Regulations" section of this catalog. Such students must also apply for reinstatement by the semester application deadlines as described in the "Applying for Admission" section and as noted on the published Academic Calendar.

## Tests Required

Freshmen and transfer students with fewer than 24 transferable credit hours subsequent to high school graduation are required to have ACT or SAT scores on file before admission and class registration can occur. This requirement is waived for students age 22 and older and for international students. The ACT or SAT scores must be less than five years old. High school students are encouraged to take the ACT or SAT in their junior year or early in the senior year (preferably by October). The University will accept the highest ACT composite for admission purposes. The Counseling and Testing Center and most high school counselors have information concerning ACT and SAT test dates and locations.

Students seeking admission to the Teacher Education Program may also be required to present ACT results. See the College of Education section of this catalog for further information.

## Placement Tests

Placement tests may be required prior to enrollment in selected course. For general education basic skills course in English and mathematics, ACT scores are used for placement purposes. Students who do not have ACT scores or who are not satisfied with their placement based on ACT scores may take placement examinations offered by the department. Students should refer to the catalog for information on other courses for which placement tests and/or auditions may be required.

## Notice to All Students

The University reserves the right to deny admission or readmission or to restrict enrollment of individuals who are determined to represent a threat to students, faculty, staff, or property. This determination will be made by the Dean of Students or his/her designee. Appeals to such a decision may be directed to the Vice President for Student Affairs.

## Costs and Fees



Park-and-Ride Facility.

**Admission Application. Undergraduate:** A \$30 non-refundable admission application fee will be required of all first-time applicants for admission to an undergraduate, degree-seeking classification. **Graduate:** A \$30 non-refundable admission application fee will be required of all first-time applicants for regular admission to graduate studies.

The application fee will not apply toward the required student fees. Students applying for their initial admission as undergraduate non-degree seeking or post-baccalaureate students are not assessed the application fee. Such students will be assessed the fee should they apply for regular admission as indicated above.

In hardship cases, the Office of Admissions is authorized to waive the admission application fee for first-time freshman applicants. Waivers may be granted to students whose counselors document that they are eligible for the free or reduced lunch program in their school systems. Waivers may also be granted to students whose counselors submit a signed National Association of College Admission Counselors fee waiver form on their behalf and to students who document that they have qualified for a waiver of the ACT registration fee.

**Books and Supplies.** Students purchase their own books. Typically, a full-time student will spend \$400 per semester for books and supplies. Actual book costs will vary based on the number and type of courses taken and whether students buy new or used books. The total cost is also reduced for those who sell back their books at the end of the semester.

**Career Center Fees.** A registration fee of \$20 will be charged to currently enrolled students and alumni. A \$50 registration fee will be charged to non-Missouri State students and non-Missouri State alumni. A \$5 per set fee will be charged for credentials processing to currently enrolled Missouri State students and Missouri State alumni. A \$30 per visit fee will be charged to non-Missouri State students and non-Missouri State alumni for career/job search/resume assistance.

**Course Fees.** Supplemental course fees may be assessed on individual courses to cover the cost of specialized supplies, equipment, or services for instructional purposes that are pro-

vided by the University to all students enrolled in the course and are in addition to routine instructional expenses. Such courses and fees are identified in the class schedule and will be assessed at time of registration.

In laboratory courses, a student responsible for unusual breakage or loss of equipment is held liable for such breakage or loss and charged accordingly.

Many courses in the Departments of Art and Design, Applied Consumer Sciences, and a few courses in other departments involve the completion of projects or exercises which require materials such as modeling clay, plastic, wood, fabrics or specific materials. Most of the projects become the property of the student; however, some completed work may be retained by the instructor. Although a course fee may not be charged, students should be aware that they will incur the cost of required materials. As a convenience to students, the University has some of these required materials available for purchase.

**Diploma/Certificate.** A \$10 fee is assessed for the issuance of a duplicate diploma or duplicate certificate.

**Health and Accident Insurance.** This insurance is available to students. This fee will be charged each semester at the time of registration to all students for whom Missouri State has issued student visa documents. See the "Health and Wellness Services" section of this catalog or contact the Taylor Health and Wellness Center for details.

Fall 2005 .....	\$392
Spring/Summer 2006 .....	\$392
Summer 2006 (for students who did not attend Spring 2006) ..	\$157
Annual .....	\$784

**Housing Security Deposit.** A security deposit is required of all new applicants for University housing:

Traditional residence hall deposit .....	\$100
Graduate and non-traditional apartment deposit .....	\$100
Married and family apartment deposit .....	\$200

**Identification Card.** A \$10 fee is charged for the replacement of a lost student identification card (ZipCard).

**Late Admission Application Fee.\*** A \$25 non-refundable fee will be charged to individuals making application for admission after the published deadline (see academic calendar). This fee is assessed in addition to the regular application fee, when applicable.

**Late Registration Fee.\*** A \$25 non-refundable fee will be charged to students who initially register after the published deadline during the fall and spring semesters (see academic calendar).

**Missouri State Teacher Certification Evaluation.** Postbaccalaureate students seeking either initial certification or additional endorsements to an existing teacher certification will be assessed a \$40 transcript analysis fee.

**Music Fee.** The private music lesson fee is \$60 per semester for one half hour lesson per week and \$105 for one hour per week. For less than a full semester the fee is \$5 per half-hour lesson for students and \$10 for non-students. The musical instrument rental fee is \$20 per instrument per semester. The rental fee covers normal maintenance of the instruments. Students are responsible for any extraordinary repairs. The fee for summer band camp is \$65.

**Parking Permits/Fines.** Parking permit costs vary according to type of parking (commuter, disabled, reserved, residence hall, evening only, and motorcycle) and the length of period (fall and spring, summer only, annual) selected. Parking fines vary from \$18 to \$100 per occurrence. Refer to the Parking Regulations guide available in the Parking Administration Office, 700 E. Elm, or on the web (keyword=parking).

**Records and Registration Document Fees.** A \$17 fee will be charged for transcripts or other documents sent via express or overnight mail within the continental United States. An additional amount may be required when sending items outside of the country.

**Registration Deposit (applicable only to students on the Deferred Payment Plan).** A \$60 non-refundable deposit is required of students upon registration. This deposit will only be applied toward payment of the required student fees for the semester of registration. Once paid, the deposit is refunded only if the student is suspended from the University.

**Returned Check Fee.** A fee of \$20 will be charged for each check presented to the University that is not honored (insufficient funds, stop payment, etc.) by the bank on which the check is drawn. If the returned check was used to pay the required student fees, the registration may be canceled and the student will be assessed the late registration fee, if applicable, in addition to the returned check charge.

**Study Away Processing Fee.** A \$75 fee must be paid by students who participate in the Study Away Program. The fee includes purchase of the International Student ID card.

**Supervised Teaching Credit Evaluation Fee:** A fee of \$45 per credit hour awarded will be charged to students for evaluation of, and awarding of, supervised teaching credit.

**Supervised Teaching Outside of Service Area.** Students will be charged \$235 per 8-week placement.

**Transcript Request Fee.** There is no charge for reasonable and routine transcript requests. See "Transcript Request" in the Academic Regulations section of catalog for more information on requesting transcripts.

*\*The late admission application and the late registration fees are waived for students registering only for short courses, workshops, seminars, and other special courses administered through the College of Continuing Education and the Extended University which do not begin until after the regular (fall, spring, or summer) semester has begun.*

## Policy on Residency For Fee Purposes

Because Missouri State University is a public, state-assisted institution, the fees for Missouri residents are lower than those for non-residents. A student's residence status is determined at the time of admission according to a policy established by the Missouri Coordinating Board for Higher Education and adopted by the Missouri State University Board of Governors. Current students seeking a change in their residence classification should contact the Office of Admissions.

### The Policy

#### 1. Definitions

- (a) "Domicile" shall mean presence within a state with an intent of making said state a permanent home for an indefinite period.
- (b) "Residency" or "Resident Status" shall mean that status which is achieved when sufficient proof of a domicile within a state is presented.
- (c) "Adult Student" shall mean any student having attained the age of twenty-one (21) years.
- (d) "Unemancipated Minor Student" shall mean any student not having attained the age of twenty-one years, and under the care, custody, or support of the individual or individuals having legal custody of said students.
- (e) "Emancipated Minor Student" shall mean any student not having attained the age of twenty-one (21) years and who is not under the care, custody and support of an individual or individuals having legal custody.

#### 2. Adult Students

If an adult student, not a resident, shall present sufficient proof of the establishment of a domicile within the State of Missouri, said student shall be granted resident status at the first enrollment following the establishment of said domicile.

#### 3. Unemancipated Minor Students

The domicile of an unemancipated minor is presumed to be that of the individual or individuals having legal custody of said student. If those having legal custody of the student establish a Missouri domicile, that student shall be granted resident status at the first enrollment following the establishment of the Missouri domicile. Once unemancipated minor students have established resident status under this rule, they may continue to qualify for resident status so long as they remain continuously enrolled, excluding summer terms, in a Missouri institution of higher education, even if the individual or individuals having legal custody of the unemancipated minor students cease to hold Missouri resident status.

#### 4. Emancipated Minor Students

The domicile of emancipated minor students shall be determined as if they were adults. A minor may become emancipated through marriage, formal court action, abandonment or positive action of alienation on the part of the minor. In all instances, alienation from care, custody and support shall be complete and the burden of satisfactory proof of emancipation shall be that of the minor student. Mere absence of the student from the domicile of the individual or individuals having legal custody of that minor student shall not constitute proof of emancipation. In no instance shall a minor student be eligible for emancipation when that student is taken as an income tax deduction by a second party other than a spouse.

**5. Members of the Military Forces**

Students shall neither gain nor lose resident status solely as a consequence of military service. For the purposes of student resident status, military personnel, when stationed within the State of Missouri pursuant to military orders, their spouses and unemancipated minor children shall be regarded as holding Missouri resident status. However, a member of the military forces who is specifically assigned, under orders, to attend a Missouri institution of higher education as a full-time student, shall be classified, along with their spouses and unemancipated minor children, as if they had no connection with the military forces.

**6. Non-citizens of the United States**

Students who are not citizens of the United States must possess resident alien status, as determined by federal authority, prior to consideration for resident status. Aliens present within Missouri as representatives of a foreign government or at the convenience of the United States or Missouri governments and holding G visas shall be entitled to resident status, except for those who are government funded students. Aliens and their dependents holding A or L visas may be granted resident status if determined to be individually designated as representatives of their governments and whose education is not government funded.

**7. Factual Criteria in Determination of Resident Status**

- (a) Attendance at an institution of higher education shall be regarded as a temporary presence within the State of Missouri; therefore, a student neither gains nor loses resident status solely by such attendance.
- (b) The burden of proof of establishing eligibility for Missouri resident status shall rest with the student.
- (c) In determining resident status for the State of Missouri, either of the following shall be sufficient proof of domicile of individuals and their dependents within the State of Missouri:
  1. Presence within the State of Missouri for a period of twelve (12) months and sufficient proof of an intent to make the State of Missouri a permanent home for an indefinite period; or
  2. Presence within the State of Missouri for the purposes of retirement, full-time employment, professional practice or to conduct a business full-time.
- (d) In determining whether a student holds an intent to make the State of Missouri a permanent home for an indefinite period, the following factors, although not conclusive, shall be given heavy weight: continuous presence in the State of Missouri during those periods not enrolled as a student; presence within the State of Missouri upon marriage to a Missouri resident and the maintenance of a common domicile with the resident spouse; substantial reliance on sources within the State of Missouri for financial support; former domicile within the state and maintenance of significant connections while absent; and ownership of a home within the State of Missouri.
- (e) The following factors indicating an intent to make the State of Missouri a permanent home for an indefinite period shall be given less weight than those in subsection 7(d) above and include: voting or registration for voting; part-time employment; lease of living quarters; a statement of intention to establish a domicile in Missouri; automobile regis-

tration or operator's license obtained in Missouri; and payment of income, personal and property taxes in Missouri. Only in borderline cases shall these factors become determinative.

- (f) The waiver or forgiveness of a non-resident student fee, in full or in part, shall have no bearing on the residency status of a student and shall not be a basis for classification of a non-resident student as a resident.
- (g) Nonresident students may offset against nonresident fees any income taxes paid to the State of Missouri. Dependent students may utilize Missouri income tax paid by their parents. (NOTE: Student must be shown as a dependent on the tax return.) No tax other than Missouri income tax will be taken into account and no credit will be given for income tax withheld or paid in connection with an estimated tax return during the current year. Offsetting a paid income tax against nonresident fees must occur within one year after the tax is paid. For example, income tax paid for 2004 must be offset against nonresident fees in the fall 2005 and/or spring 2005 semester and/or summer 2005 semester. The tax credit will be offset against the nonresident portion of incidental fees only and will not be offset against any other fees or charges. The tax credit may be used only once, except that credit in excess of current nonresident fees may be carried forward to subsequent semesters subject to the one year limitation stated previously. Questions regarding the above procedure or policy should be directed to: Financial Services Director of Accounting, 901 South National Ave, Springfield, MO 65897 (417) 836-5633.

**8. Review Procedure**

Residency will be determined at the time of admission by the admissions office according to the above policy. All students who indicate legal residence in Missouri on their admission applications but who are classified as non-residents on the basis of other available information will be sent a copy of the residency policy. Any questions concerning the policy or its interpretation should be directed to the Assistant Director of Admissions. If such case should arise where a student is dissatisfied with the interpretation, the student may appeal to the Director of Admissions. In such cases where dissatisfaction still persists, an appeal may be made to the Committee on Residence. If a determination is made by this committee, the results will be considered final and will be communicated to the student in writing.

Questions regarding this policy should be directed to: Office of Admissions, Missouri State University, 901 South National Ave, Springfield, MO 65897, (417) 836-5517 or (800) 492-7900 or emailed to: [admissions@missouristate.edu](mailto:admissions@missouristate.edu).

**Deferred Payment Plan**

The University has a Deferred Payment Plan which allows students to defer payment of required student fees and residence hall charges. In addition, students, faculty, and staff will be allowed to use their identification numbers to charge miscellaneous charges and fines, including Taylor Health and Wellness Center charges, long distance telephone charges, Bookstore charges, and library fines. These miscellaneous charges are not deferred, but are due when billed. Finance charges accrue on the second statement produced.

Students must submit the required minimum payment of \$60.00 toward the required student fees by the fee payment deadline in effect at the time of the student's registration. Fee payment deadlines are printed in the semester class schedule, and are stated on each student's registration invoice. The remainder of the required student fees and residence hall charges, if applicable, must be paid in monthly installments with the balance being paid in full by the fifteenth of the month preceding the end of the semester. Use of the Deferred Payment Plan does incur the assessment of finance charges.

The terms and conditions of the Deferred Payment Plan are printed on the reverse of the Registration Request form and the monthly accounts receivable statement. Statements are produced the evening of the last business day of each month. Students can view their account and monthly statements on the web My Information system within the My Money option. Students who violate the terms and conditions will be removed from participating and will be required to pay fees in full by the due date.

## Fee Payment Guidelines

In order to retain their registration, students enrolled in the Deferred Payment Plan (DPP) must pay a \$60 required minimum payment. Students who have had the privilege of participating in the DPP revoked by the Financial Services Office must pay full fees according to the Fee Payment Deadlines based on date of initial registration. Students may appeal to the Financial Services Office to be reinstated to the Deferred Payment Plan. The \$60 required minimum payment will **not** be refunded, once paid, if the student withdraws from the University. It is the student's responsibility to complete payment as stated on the student's registration invoice whether or not additional statements are received. Payments must be *received* by the Bursar's Office, not postmarked by the due date specified. In addition, students who withdraw from the University may continue to owe fees if the withdrawal is not requested in writing on or before the 100 percent refund deadline for the course(s) enrolled. Refer to the "Refund Policy for Drops and Withdrawals" section for further information. Financial aid, employee waivers, graduate assistant fee waivers and/or credit balances are not always automatically applied towards outstanding fees. It is the student's responsibility to ensure that aid or waivers are applied properly or to request a credit balance from a previous semester be applied to the appropriate fees prior to the applicable deadline(s).

Students who do not complete payment of current semester Required Student Fees and Housing Fees by the deadline will:

1. Have their future registration(s), if any, cancelled (thereby making those classes available to other students)
2. Be removed from the Deferred Payment Plan
3. Be encumbered until paid

## Fee Payment Locations

**Bursar's Office:** Carrington 102, 8:30am-4:30pm, Monday through Friday by: *Phone – credit card\**; *In person – cash, check, credit card\**; *Mail – check; Drop Box – check.*

**Website:** [www.missouristate.edu/costs](http://www.missouristate.edu/costs), 7:00am-9:00pm CST by: *Online - credit card\**.

NOTE: Payments submitted via the web are **not** posted to the specified account until the next business day; therefore, do not use this method when fees are due the same day.

*\*Credit cards accepted are American Express, Discover, Mastercard, and Visa.*

## Policies Regarding Payment of Fees

The purpose of this section is to inform students of the actions which may be taken when fees assessed by the University are not paid in a timely fashion.

All charges assessed by the University are due and payable within 30 days of the date the debt was incurred. If a student makes payment by check and that check is not honored by the student's bank, the student will be notified and must make restitution within ten days from receipt of notification.

When a student has unpaid charges which are over 30 days past due or has otherwise failed to make satisfactory arrangements for the settlement of a University account, the University may: place an encumbrance on the student's record which will prevent registration for future semesters and the release of transcripts and diplomas, as well as access by the student to other University services except where an emergency medical situation may exist; offset the student's payroll checks (for student employees) or refunds issued through University offices until the debt is repaid; assess a late registration fee (when a check for required student fees is not honored by the student's bank); remove the student from University housing; and/or disenroll the student. Failure to repay short-term loans by the specified date could make a student ineligible for future financial assistance. Charges which remain unpaid after an extended period of time may be reported to the Credit Bureau of Springfield for credit reporting and collection purposes. The reported data are compiled on the debtor's permanent credit file. Past due charges may also be reported to the Missouri Department of Revenue to be offset against the debtor's Missouri income tax refund.

Inquiries regarding unpaid charges should be directed to: Financial Services Office, Missouri State University, 901 South National Ave, Springfield, Missouri 65897, phone (417) 836-5632.

Should a student feel that a notification of indebtedness is incorrect, the student may submit a written appeal, citing the grounds for the appeal, through the Vice President for Student Affairs Office within ten school days from the date of notification.

## Refund Policy for Drops and Withdrawals

Students who withdraw from the University or drop a course may receive a partial refund of the required student fees (or a change in their fee assessment if all fees have not been paid) provided they complete the formal drop or withdrawal process by the established deadlines appropriate to the length or delivery method of the class. Students who are enrolled in the Deferred Payment Plan are responsible for the amount of unpaid fees after the refund or re-assessment.

If a student receives a scholarship, grant, or loan from the University the refund is used to repay the scholarship, grant, or loan. A refund is made to the student only if the refund exceeds the amount of the award from the University. For students who are recipients of Federal Title IV student aid, refunds will be made in accordance with all applicable federal regulations. Examples of refund calculations for Title IV aid recipients are available in the Office of Student Financial Aid.

Sixty dollars of each student's required student fees is designated as a non-refundable administrative fee, once paid. The administrative fee is retained by the University if the student withdraws from all courses, but not for students who drop only some of their courses.

Refer to the "Academic Regulations" section of this catalog for information regarding the drop and withdrawal policies and procedures. Refund deadline dates are available on the web at [www.missouristate.edu/costs](http://www.missouristate.edu/costs) and on the web calendar and in the semester class schedules.

The date used to determine the refund of fees is as follows:

**Withdrawals** — the date the student completes the withdrawal request form and has it processed in the Registration Center, Carrington Hall, Room 320; or the postmark date of withdrawal requests submitted by mail to the Registration Center, 901 S. National Ave, Springfield, MO 65897; or the date a withdrawal request is faxed to (417) 836-8776.

**Drops** — the date the student submits a change of schedule form to an authorized location for processing. Authorized locations are listed in the semester class schedules.

If a student drops or withdraws from a **full-semester** course during the fall or spring semester, the refund shall be as follows:

On or before the second day of the semester	100% of Required Student Fees (less \$60 if student withdraws from all courses for semester)
Days 3 through 10 of the semester	90% of Required Student Fees (but no more than 100% less \$60 if student withdraws from all courses for semester)
Days 11 through 20 of the semester	50% of Required Student Fees (but no more than 100% less \$60 if student withdraws from all courses for semester)
Days 21 through 40 of the semester	25% of Required Student Fees
After the 40th day of the semester	No refund

Refunds for **block courses, extended courses, and the summer session** are proportionate to the length of the above refund periods. Specific dates and deadlines are listed in the appropriate semester class schedules.

The refund for **intersession, short courses and workshops** is 100% of Required Student Fees (less an administrative fee of \$60 if the student withdraws from all courses) if the course is dropped before the first day of class. After the first class meeting, refunds for intersession, short courses and workshops are made on the basis of the number of class meeting days. For classes

meeting one to four days, the refund is 70% of Required Student Fees (less an administrative fee of \$60 if the student withdraws from all courses) if dropped before the second class meeting. For classes meeting five or more days, the refund is 70% of Required Student Fees (less an administrative fee of \$60 if the student withdraws from all courses) if dropped before the third class meeting. No refunds will be issued after these deadlines.

Courses which are offered through the **Missouri State Online Program** (Internet-based instruction) and are self-paced or off-sequence in regard to the regular semester schedule will utilize a special refund schedule adapted to the specific time frames of the individual courses. The College of Continuing Education and the Extended University will maintain a refund schedule and authorize refunds for such courses.

Courses in the **Master of Science in Computer Information Systems program**, which combine an intensive on-campus residency and distance learning in an extended semester format, will utilize a special refund schedule adapted to the specific time frames of the individual courses. The College of Business Administration will maintain the refund schedule and authorize refunds for such courses.

**PLEASE NOTE:** Routine exceptions are made to the above refund schedule for students who drop and then replace those hours with added hours DURING THE CHANGE OF SCHEDULE PERIOD ONLY (the first five days of the fall or spring semester and the first two days of the summer session). Such drops are credited at 100 percent for an even exchange of hours. Because courses should not be added after the change of schedule period, dropped courses and added courses (**including section changes**) WILL NOT be considered an even exchange and will result in an additional financial obligation for the student. Exceptions may be granted when the department of the course(s) dropped and added provides written verification to the Registration Center stating that the change was required or recommended by the department.

## Exceptions to the Fee Refund Policy

Exceptions to the drop and withdrawal fee refund policy are generally granted only when a documented University error has occurred. Exceptions may be granted when the deadline is missed by a few days due to documented exceptional circumstances which were beyond the control of the student. Appeals to the refund policy must be made in writing to the Registration Center, Carrington 320, within one month of the drop or withdrawal and must be accompanied by documentation of the circumstances. The appeal may be forwarded to the Fee Refund Policy Exception Committee for a decision.

## Room and Board Costs

See "Housing" section of this catalog.

## Required Student Fees for Fall 2005, Spring 2006, and Summer 2006

Required Student Fees are a combination of *basic fees* and *student services fees*.

### Basic Fees:

These fees are assessed based on the level, type, location, and delivery of the course. Audited courses are assessed the regular basic fees and student services fees.

	Course Level, Type, Location, Delivery	Missouri Resident	Non-Missouri Resident*
Springfield and Off Campus	<b>Courses numbered 1-599</b> (excluding MIL 225, MIL 325, GEN 598, and all ANE courses)	<b>\$164</b> Per Credit Hour	<b>\$328</b> Per Credit Hour
	<b>Courses numbered 600-899</b> (excluding GEN 698, EAD 800 level, and all ANE courses)	<b>\$189</b> Per Credit Hour	<b>\$378</b> Per Credit Hour
	<b>ANE courses (any level)</b>	No charge	No charge
	<b>EAD 800 level</b> (based on University of Missouri-Columbia graduate per credit hour fee)	<b>\$263</b> Per Credit Hour	<b>\$680</b> Per Credit Hour
	<b>GEN 598 and GEN 698</b>	\$75 total fee	\$75 total fee
	<b>MIL 225 and MIL 325</b>	\$150 total fee	\$150 total fee
	Internet	<b>MS in Administrative Studies courses:</b>  <b>Courses numbered 500-599</b>	<b>\$182</b> Per Credit Hour
<b>Courses numbered 600-799</b>		<b>\$208</b> Per Credit Hour	<b>\$258</b> Per Credit Hour
<b>MS in Computer Information Systems courses</b>		<b>\$395</b> Per Credit Hour	<b>\$395</b> Per Credit Hour
<b>All other courses taught via Internet</b>		<b>\$258</b> Per Credit Hour	<b>\$258</b> Per Credit Hour
BearNet Sites	Offered at Branson, Joplin, Lebanon, Monett, Mountain Grove, Neosho, Nevada, and West Plains <b>Courses numbered 1-599</b>	<b>\$164</b> Per Credit Hour	<b>\$164</b> Per Credit Hour
	Offered at Branson, Joplin, Lebanon, Monett, Mountain Grove, Neosho, Nevada, and West Plains <b>Courses numbered 600-899 (excluding EAD 800 level courses)</b>	<b>\$189</b> Per Credit Hour	<b>\$189</b> Per Credit Hour
	Offered at Branson, Joplin, Lebanon, Monett, Mountain Grove, Neosho, Nevada, and West Plains <b>EAD 800 level courses</b>	<b>\$263</b> Per Credit Hour	<b>\$263</b> Per Credit Hour
Dual High School Credit	<b>Courses offered at area high schools and students enrolled to receive dual high school and college credit for the course</b> (assessed 50% of basic fee for Missouri resident, rounded to nearest whole dollar)	<b>\$82</b> Per Credit Hour	<b>\$82</b> Per Credit Hour
Misc. Exceptions	<b>e-Mints</b> courses for area teachers, <b>Step-Up</b> courses for Springfield R-12, and <b>Visual Impairment</b> courses for Kansas teachers	<b>\$45</b> Per Credit Hour	<b>\$45</b> Per Credit Hour

\*Non-Missouri residents are assessed resident student rates when enrolling in fewer than seven hours for the fall and spring semesters and fewer than five hours for the summer semester. Such students enrolling in enough hours to be charged the non-resident rate will be assessed the nonresident rate for all hours enrolled. This does not apply to non-Missouri resident students taking classes at the Fairfax, Virginia site. Classes at that site will be assessed at the nonresident rates regardless of number of hours taken.

The Required Student Fees schedule is subject to revision by the Board of Governors without notice.



**Student Services Fees:**

The student services fees are assessed for classes meeting on the Springfield Campus. These fees are committed to provide activities, programs, and services available to students and cannot be waived regardless of whether or not a student desires to utilize the activities, programs, or services offered. However, the student services fees will generally not be assessed for sections identified in the semester class schedule as: Workshop (WKSH), Dual Credit/High School Based (DUCR), Intersession (INTR), Cable TV (CBLE), Video Rental (VDEO), Cable TV and Video Rental (CBVR), Internet (INET), Interactive CD (INCD) and courses taught in any location other than Springfield Campus (SPFD). Sections identified as short (SHRT) will only be assessed Student Services Fee if the class is scheduled to meet on campus more than four times.

Students who have not been assessed the full amount of the Health Center Fee for that semester will be assessed the difference upon initial use of the Taylor Health & Wellness Center services for the semester. Thereafter, students receive unlimited pre-paid basic office visits each semester when seeing one of the clinic providers. There is an office visit fee for seeing one of the clinic physicians for longer office visits and the consulting physicians. Charges are incurred for laboratory tests, x-rays, pharmacy items, and for certain other procedures.

<b>Fall 2005 and Spring 2006</b>	<b>1 cr hr</b>	<b>2 cr hrs</b>	<b>3 cr hrs</b>	<b>4 cr hrs</b>	<b>5 cr hrs</b>	<b>6 cr hrs</b>	<b>7 or more cr hrs</b>
Student Union-Capital Projects Fee	7	9	11	13	15	17	22
Student Union-Operating Fee	6	8	10	12	14	16	21
Capital Projects-Wyrick Commission	3	3	3	3	3	3	3
Student Art Gallery Fee	1	1	1	1	1	1	1
Health Center Fee	8	15	22	29	36	43	50
Shuttle Fee	13	15	17	19	21	23	28
Computer Usage Fee	17	23	29	35	41	47	70
Student Involvement Fee	4	6	8	10	12	14	16
Recreation Facilities Fee	9	14	19	24	29	34	47
Student Security Fee	5	5	5	5	5	5	5
Centennial Leaders Scholars Program Fee	3	3	3	3	3	3	3
SGA Fee	1	1	1	1	1	1	1
<b>Total Student Services Fees</b>	<b>\$77</b>	<b>\$103</b>	<b>\$129</b>	<b>\$155</b>	<b>\$181</b>	<b>\$207</b>	<b>\$267</b>

<b>Summer 2006</b>	<b>1 cr hr</b>	<b>2 cr hrs</b>	<b>3 cr hrs</b>	<b>4 or more cr hrs</b>
Student Union-Capital Projects Fee	7	9	11	13
Student Union-Operating Fee	6	8	10	12
Capital Projects-Wyrick Commission	3	3	3	3
Health Center Fee	8	14	20	26
Shuttle Fee	13	15	17	19
Computer Usage Fee	7	13	19	25
Student Involvement Fee	4	6	8	10
Recreation Facilities Fee	9	14	19	25
Student Security Fee	5	5	5	5
Centennial Leaders Scholars Program Fee	3	3	3	3
<b>Total Student Services Fees</b>	<b>\$65</b>	<b>\$90</b>	<b>\$115</b>	<b>\$141</b>

**The Required Student Fees schedule is subject to revision by the Board of Governors without notice.**

**Supplemental Course Fees:**

Supplemental course fees may be assessed on courses or sections of courses to cover the cost of specialized supplies, equipment, or services for instructional purposes that are provided by the University to all students enrolled in the course and are in addition to routine instructional expenses. Such courses and fees are identified below and will be assessed at the time of registration. Students should also be aware that other courses may require the student to purchase specialized materials.

**Course fees approved by the Board of Governors and assessed of all sections:**

AGB 394 .....	\$ 160	NUR 312 .....	\$ 65
AGS 162 .....	\$ 75	NUR 322 .....	\$ 65
AGS 262 .....	\$ 100	NUR 331 .....	\$ 65
AGS 402 .....	\$ 150	NUR 342 .....	\$ 65
ANT 451 .....	\$ 100	NUR 442 .....	\$ 65
DSS all .....	\$ 500	NUR 482 .....	\$ 65
GLG 360 .....	\$ 125	PAS 686 .....	\$ 40
GLG 412 .....	\$ 75	PAS 698 .....	\$ 40
GLG 613 .....	\$ 75	PED 106 .....	\$ 40
GRY 470 .....	\$ 200	PED 107 .....	\$ 40
MUS 398 .....	\$ 25	PED 118 .....	\$ 45
MUS 498 .....	\$ 25	SWK 490 .....	\$ 35
NUR 303 .....	\$ 65	SWK 635 .....	\$ 25
NUR 304 .....	\$ 65	SWK 680 .....	\$ 25

**Section fees approved by the Board of Governors and assessed of specified sections:**

AGR 200	Flower Arranging section .....	\$ 125
AGR 200	Advanced Flower Arranging section .....	\$ 125
EAD 770	First Things First section .....	\$ 85
EAD 770	Seven Habits of Highly Effective People section ..	\$ 75
GRY 596	Stream Environments section .....	variable

Section fees may also be approved by the Vice President for Academic Affairs on a case-by-case basis. Such fees will be listed in the Semester Class Schedule.

**Calculating Required Student Fees**

Multiply the number of credit hours for each course by the appropriate per credit hour fee based on the level and type of the course, sum the basic fees for all courses, and add the student services fee appropriate for the total number of credit hours enrolled.

Example (for a Missouri resident during fall 2005):

Course	Credit Hours	x	Per Credit Hour Fee Rate	=	Basic Fees	+	Supplemental Course Fees	
ENG 110	3	x	\$164	=	\$492	+	0	
COM 115	3	x	\$164	=	\$492	+	0	
MTH 261	5	x	\$164	=	\$820	+	0	
PED 118	1	x	\$164	=	\$164	+	\$45	
CIS 101	2	x	\$258 (internet rate)	=	\$516	+	0	
	14 hours				\$2,484		\$45	
							Total Basic Fees:	\$ 2,484
							Student Services Fees:	\$ 267
							Total Required Student Fees:	\$ 2,751
							Total Supplemental Course/Section Fees:	\$ 45
							Total Incidental Fees:	\$ 2,796

**The required student fees schedule is subject to revision by the Board of Governors without notice.**

## Financial Assistance

Office of Student Financial Aid, Carrington Hall, room 101, Phone (417) 836-5262 or 1-800-283-4AID, FAX: (417) 836-8392, TDD: (417) 836-4770, Email: FinancialAid@missouristate.edu



The faculty and administration of the University, recognizing the desirability of excellence in scholarship and aware of the financial needs of many students, have developed a program of financial assistance. The program consists of scholarships, awards, loans, grants, and work-study programs. In addition, athletic grants-in-aid are provided for selected student athletes, and the Student Employment Office helps students find part-time work.

### How to Apply for Financial Aid

To apply for federal financial aid you need to complete the Free Application for Federal Student Aid (FAFSA). An electronic application may be filed at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). This form is also available in most high schools and colleges and may also be obtained by contacting the Office of Student Financial Aid at Missouri State. This application requires information from your (and/or your parents) previous year tax return and should be completed as soon as possible after January 1 and prior to March 31 of each year to determine your eligibility for aid for the upcoming academic year (fall/spring/summer). Applications received after March 31 will be considered only if funds are available. Financial aid is awarded for fall and spring semesters with summer aid being available only if the student has not already used all of the maximum annual or aggregate limits of eligible aid for the academic year. Because summer aid is determined separately, you must register for the summer session prior to having summer aid eligibility processed.

To apply for University scholarships you must apply and be admitted. Applications for admission can be obtained from the Office of Admissions and from most high schools. An application is also available at [www.missouristate.edu/admissions](http://www.missouristate.edu/admissions).

## Scholarships

The following summary of selected University funded competitive scholarship programs is for the 2005-2006 academic year of August through May (summer session fees are not covered). Scholarships require students to be enrolled full-time (a minimum of 12 credit hours per semester). Unless otherwise noted, scholarships cannot be combined.

The criteria for selection, the application process, the value and number of scholarships listed below are all subject to change without notice. Scholarship information for 2005-2006 can be found at [www.missouristate.edu/financialaid](http://www.missouristate.edu/financialaid). Prospective students for fall 2006 and beyond are encouraged to contact the Office of Student Financial Aid for information.

### Freshman Scholarships

*Freshman scholarships are limited to students who enter the year they graduate from high school. Current students are not eligible to apply.*

#### Presidential Scholarship

- Value:** Required Student Fees and on campus room and board.
- Criteria:** Entering freshmen must: rank in the top 10 percent of their class and have an ACT composite of 30 or above, or a combined verbal and math score of 1320 on the SAT.
- Renewable:** Yes — complete 30 hours each year (fall, spring, summer) (transfer hours will not be considered) with a minimum 3.50 cumulative grade point average. Participate in at least two public affairs activities annually.
- Application:** Complete the Presidential Scholarship Application and return to the Office of Admissions. Deadline — January 15.
- Available:** 40 scholarships offered.

**Multicultural Leadership Scholarship**

- Value:** Required Student Fees (in state).
- Criteria:** Entering students must graduate in the upper one-half of their class and have demonstrated leadership in the minority community through involvement in various school and civic organizations.
- Renewable:** Yes — complete 24 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) and maintain a 2.75 cumulative grade point average. Participate in two multicultural activities annually.
- Application:** Complete the Multicultural Leadership Scholarship Application and return to Multicultural Student Services. Deadline — February 1. Can be combined with Leadership Community College Scholarship and the Out of State Fee Waiver.
- Available:** 50 scholarships offered.

**Board of Governors Scholarship**

- Value:** Missouri Residents: An amount equivalent to basic fees for 32 credit hours per year (16 credit hours per semester). Current value: \$5,248 per year. Non-Missouri Residents: Basic Fees for 32 credit hours per year (same as Missouri residents) plus an additional amount to cover two-thirds of out-of-state fees for 32 credit hours per year. Current value: \$8,748 per year.
- Criteria:** Entering freshmen must either rank in the top 10 percent of their class or have a 3.85 GPA and have an ACT composite score of 28 or above.
- Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.50 cumulative grade point average. Participate in at least two public affairs activities annually.
- Application:** Complete the admission application and return to the Office of Admissions. Deadline — March 1.
- Available:** Unlimited number of scholarships available.

**Academic Scholarship**

- Value:** Missouri Residents: \$2,250 annually. Non-Missouri Residents: \$2,250 annually plus an additional amount equivalent to two-thirds of their out-of-state fees for 32 credit hours per year (current value: \$5,750).
- Criteria:** Entering freshmen must be valedictorian or salutatorian, or either rank in the top 20 percent of their class or have a 3.70 GPA and have an ACT composite of 26 or above.
- Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.40 cumulative grade point average.
- Application:** Complete the admission application and return to the Office of Admissions. Deadline — March 1.
- Available:** Unlimited number of scholarships available.

**Recognition Scholarship**

- Value:** Missouri Residents: \$1,125 annually. Non-Missouri Residents: \$1,125 annually plus an additional amount equivalent to two-thirds of out-of-state fees for 32 credit hours per year (current value: \$4,625).
- Criteria:** Entering freshmen must either rank in the top 10 percent of their class or have a 3.85 GPA and have an ACT composite score of 24 or 25.
- Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.30 cumulative grade point average.
- Application:** Complete the admission application and return to the Office of Admissions. Deadline — March 1.
- Available:** Unlimited number of scholarships available.

**MSU Leadership Scholarship**

- Value:** \$1,000
- Criteria:** Southwest District high schools may recommend one student for every 100 graduates or fraction thereof. The Southwest District includes high schools in the following Missouri counties: Barry, Barton, Cedar, Christian, Dade, Dallas, Douglas, Greene, Howell, Jasper, Laclede, Lawrence, McDonald, Newton, Oregon, Ozark, Polk, Shannon, Stone, Taney, Texas, Vernon, Webster and Wright.
- Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.25 cumulative grade point average.
- Application:** Schools submit letters of nomination to the Office of Student Financial Aid. Deadline — May 1.
- Available:** Number of scholarships available varies.

**Hutchens/SGA Centennial Leaders Scholarship**

- Value:** \$1,250-\$2,500
- Criteria:** Entering freshmen must either rank in the top one half of their class or have a 3.00 GPA and have a composite ACT of 20 or above with demonstrated leadership in the school or community.
- Renewable:** Yes — renewable for one year for students who complete 30 credit hours at Missouri State with a cumulative GPA of 3.00. Students are also required to participate in the Emerging Leaders Academy.
- Application:** Complete on-line application and apply for admission by December 1. Applicants are encouraged to submit the Free Application for Federal Student Aid (FAFSA) by March 31.
- Available:** Number of scholarships available varies.

**Transfer Scholarships****Community College Scholarship**

- Value:** \$2,000
- Criteria:** Presidents of Missouri public community colleges may each nominate two students to receive this scholarship. Recipients must have completed at least 30 transferrable credit hours with a minimum 3.25 GPA.

**Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.40 cumulative grade point average.

**Application:** Presidents submit letter of recommendation to the Office of Student Financial Aid by May 1.

**Available:** 40 scholarships available.

#### **Phi Theta Kappa Scholarship**

**Value:** An amount equivalent to basic fees for 32 credit hours per year (16 credit hours per semester). Current value: \$5,248 per year.

**Criteria:** Entering students must be current members of Phi Theta Kappa.

**Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.50 cumulative grade point average. Participate in at least two public affairs activities annually.

**Application:** Complete the Phi Theta Kappa Scholarship Application and return to the Office of Student Financial Aid. Documentation of Phi Theta Kappa membership from your chapter advisor is required with the application. Deadline — March 1 for summer/fall admissions, October 1 for spring admissions. Students may not receive both the Phi Theta Kappa and Transfer Academic or Community College Scholarships.

**Available:** 4 scholarships available.

#### **Transfer Academic Scholarship**

**Value:** \$1,500

**Criteria:** Entering students must be community college transfers who have completed at least 45 transferrable credit hours with a minimum 3.60 grade point average at a community college.

**Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.40 cumulative grade point average.

**Application:** Complete the online application and the Admission Application and return to the Office of Admissions. Deadline — March 1 for summer/fall admissions, October 1 for spring admissions. Students may not receive the Transfer Academic or the Community College in conjunction with the Phi Theta Kappa Scholarships.

**Available:** Unlimited number of scholarships available.

### **Out-of-State Fee Programs**

#### **Continue the Tradition**

**Value:** Out-of-state fees

**Criteria:** Entering students must be classified as non-residents for fee purposes, and at least one of their parents or grandparents must be a graduate (associate's, bachelor's, or master's degree) of

Missouri State. Entering freshmen must rank in the upper 25 percent of their class (or 3.50 GPA) and have an ACT composite score of 24 or above. Transfer students must have completed at least 24 hours with a minimum 3.25 cumulative grade point average.

**Renewable:** Yes — remain enrolled full-time and maintain satisfactory academic progress.

**Application:** Contact the Office of Alumni Relations at 417-836-5654 for more information.

**Available:** Unlimited number of scholarships available.

#### **Midwest Student Exchange Program**

**Value:** An amount equivalent to two-thirds out-of-state fees for 32 credit hours per year. Current value: \$3,500.

**Criteria:** Non-resident students from Kansas, Michigan, Minnesota, Nebraska or North Dakota. Entering freshmen must rank in the upper 25 percent of their class (or 3.50 GPA) and have an ACT composite score of 24 or above. Transfer students must have completed at least 24 hours with a minimum 3.25 cumulative grade point average.

**Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.25 cumulative grade point average.

**Application:** Complete the Admission Application and return to the Office of Admissions. Deadline — March 1. This award may be combined with the Leadership Centennial Leaders, Community College, Phi Theta Kappa, Multicultural Leadership or Transfer Academic Scholarship.

**Available:** 150 scholarships available.

#### **Out-of-State Fee Stipend**

**Value:** An amount equivalent to two-thirds out-of-state fees for 32 credit hours per year. Current value: \$3,500.

**Criteria:** Non-resident entering freshmen must rank in the upper 25 percent of their class (or 3.50 GPA) and have an ACT composite score of 24 or above. Transfer students must have completed at least 24 hours with a minimum 3.25 cumulative grade point average.

**Renewable:** Yes — complete 30 hours each year (fall, spring, summer) at Missouri State (transfer hours will not be considered) with a minimum 3.25 cumulative grade point average.

**Application:** Complete the Admission Application and return to the Office of Admissions. Deadline — March 1. This award may be combined with the Leadership Centennial Leaders, Community College, Phi Theta Kappa, Multicultural Leadership or Transfer Academic Scholarships.

**Available:** Unlimited number of scholarships available.

## Missouri Income Tax Credit

Non-resident students may offset non-resident fees against income taxes paid to the state of Missouri. Dependent students may utilize Missouri income tax paid by their parents. Contact the Financial Services Office at 417-836-5632 for information.

## Departmental Scholarships

Many academic departments offer scholarships to students who have declared majors in their departments. Detailed information about eligibility criteria and value can be found at [www.missouristate.edu/Financialaid](http://www.missouristate.edu/Financialaid). Interested students may also contact the academic department head for more information about departmental scholarships.

## Athletic Awards

Grants-in-aid for men and women athletes are awarded each year to student athletes who possess those qualities of character and academic ability essential for college success. The requirements and regulations governing athletic grants-in-aid are set and supervised by the National Collegiate Athletic Association and the Missouri Valley Conference. Contact the Office of Men's Athletics or the Office of Women's Athletics for information.

## Scholarship Development

The University finds it increasingly important to explore new avenues of securing scholarship and financial aid funds for students. To assist in this, as well as other areas of University development, the University has established the Foundation. Through the generosity of Missouri State University alumni and friends, many scholarships have been established to assist students. These scholarships carry the names of individuals who have been honored or memorialized by private donations made through the Foundation. Persons interested in establishing a scholarship or helping the University in some equally meaningful way are encouraged to contact the Director of Development for information.

## Federal Financial Aid Programs

The following is a summary of federal financial aid programs. Most of these programs are based on need. Need is defined as the cost of attending the University minus the contribution of the student and the student's parents.

**Federal Pell Grant.** This program provides grants, which need not be repaid, to help students with their college expenses. Grants range between \$400 to \$4,050 for the academic year.

**Federal Supplemental Educational Opportunity Grant (SEOG).** These grants are limited in number and amount. Like the Pell Grants, they need not be repaid. Priority in awarding SEOG grants will be given to those students with the highest need.

**Federal Work-Study (FWS).** This program provides part-time jobs to students while they are in school. A work-study award is a promised opportunity to work enough hours to earn the amount awarded. Jobs will be assigned in a manner that will provide work learning opportunities which complement and reinforce the student's educational programs. Students are paid by the hour and receive paychecks once a month. Most students will work eight to twelve hours per week.

**Federal Perkins Loan.** The Perkins Loan Program provides low interest (5 percent) loans that must be repaid after the student

leaves school. The typical loan amount is \$1,000 or less. Cumulative limits are \$15,000 for undergraduates and \$30,000 for graduate students.

**Federal Stafford Loan.** These loans carry a variable interest rate and require repayment after the student leaves school. The school approves the loan and private lenders such as banks, savings and loans, or credit unions provide the funds. Annual loan limits are \$2,625 for freshmen, \$3,500 for sophomores, and \$5,500 for juniors and seniors. Graduate students can borrow up to \$8,500. Cumulative limits are \$23,000 for undergraduates and \$65,500 for graduate work combined. Eligibility for this program is based on demonstrated financial need. Students who qualify on the basis of financial need may have their in-school interest paid by the federal government.

**Federal Unsubsidized Stafford Loan.** Students who do not qualify for a Stafford Loan based on need or have their maximum loan eligibility reduced may receive an unsubsidized loan. The interest rate and deferment requirements are the same as the Stafford Loan. However, the student must pay the interest while they are in school or capitalize the interest and have it added to the principal of the loan.

**Federal Parent Loan (PLUS).** Parents of dependent undergraduates are eligible to borrow money for their children's educational expenses under this program. Loans are obtained from private lending institutions and are certified by the school. These loans carry a variable interest rate which accrues immediately upon disbursement. The amount of this loan may not exceed the student's cost of education less any other aid received.

## State Programs

**Missouri Higher Education Academic Scholarship Program (Bright Flight).** This program provides scholarships in the amount of \$2,000 to eligible Missouri residents attending a participating Missouri college or university. To qualify, a high school graduate must have a composite score on the ACT or SAT in the top three percent of all Missouri students taking those tests. The current applicable ACT score is 30. The Missouri Coordinating Board for Higher Education (CBHE) administers this program.

**Missouri Teacher Education Scholarship.** This scholarship program, created by the Missouri Legislature in 1985, was established to attract high ability students into the teaching profession. The scholarship is valued at \$2,000 for one academic year. Half of each award is paid by the state of Missouri, the other half is paid by the University. The program is administered by the Missouri Department of Elementary and Secondary Education (DESE).

**Missouri College Guarantee Program.** This scholarship is based on demonstrated financial need, as well as high school and college academic achievement. To be eligible, you must have a high school grade-point average of 2.50 or higher on a 4.00 scale; score 20 or higher on the ACT; be enrolled full-time at a participating Missouri postsecondary school; demonstrate financial need; maintain satisfactory academic progress according to standards of the school; be a Missouri resident and a United States citizen or eligible noncitizen; and not be pursuing a degree or certificate in theology. The maximum scholarship award is based

on the tuition cost at the University of Missouri. Other federal and state need-based financial aid programs will be considered to determine the final award amount.

**Charles Gallagher Grant Program.** This state program provides need-based grants for Missouri citizens attending Missouri postsecondary institutions. To be eligible to receive a Gallagher award, you must: 1) be a full-time undergraduate student at an approved Missouri postsecondary school working toward your first baccalaureate degree; 2) demonstrate financial need; 3) maintain satisfactory academic progress as defined by the school; 4) be a Missouri resident and a United States citizen or eligible noncitizen and; 5) not be pursuing a degree or certificate in theology or divinity. The maximum annual grant amount is \$1,500.

## Financial Aid Appeals

For disputes related to the awarding or renewal of financial aid or scholarships, the student should consult the Financial Aid Office or the particular college or department under which the award is granted to ascertain the appropriate channel of inquiry. Students should also obtain a copy of the scholarship eligibility criteria. Such disputes can be referred for appellate review only upon recommendation of the Vice President for Student Affairs or the Vice President for Academic Affairs or their designee.

## Student Employment

In addition to the Federal Work-Study program, most departments and offices on campus employ students. The University has established a student employment service to assist students in locating jobs, both on campus and in the community. The Student Employment Office is located in Blair-Shannon Residence Hall, Room 113, telephone (417) 836-5627, or visit the web site at [www.missouristate.edu/studentemp](http://www.missouristate.edu/studentemp).

## Graduate Assistantships

A number of graduate assistantships are made available each year to assist students with expenses while studying for advanced degrees.

To be eligible for a graduate assistantship, a student must be admitted to a graduate degree program. Graduate assistants must have a minimum grade point average of 3.00 on the last 60 hours of course work, or a minimum grade point average of 3.00 on nine or more hours of the most recent graduate course work.

The graduate assistantship provides a student with a stipend of either \$6,300 or \$8,400 for the academic year (nine months). Graduate assistants are required to enroll in a minimum of six hours of graduate course work (500-800 level) each semester they receive an assistantship. A limited number of graduate assistantships are available during the summer.

Graduate assistantships are offered in both academic and administrative areas and may involve academic, teaching, research, and/or administrative responsibilities. When feasible, the assistantship assignment is closely related to the student's program of study.

To apply for a graduate assistantship, the student must submit an application directly to the department in which an assistantship is sought. Applications are available from the Graduate College,

Carrington Hall Room 306, telephone (417) 836-5335 or online at <http://graduate.missouristate.edu>.

**Fee Waiver Scholarships.** Students who receive graduate assistantships are also eligible for fee waiver scholarships. Fee waivers are intended to cover graduate courses. Undergraduate courses that support a student's program of study may also be covered by the fee waiver. Fee-waiver scholarships are for up to 15 hours of course work for each of the fall and spring semesters. Those receiving summer term fee-waiver scholarships have fee coverage for up to 6 hours of course work.

## Veterans Benefits

Missouri State University is approved for certification of students eligible to receive educational assistance (G.I. Bill) from the U. S. Department of Veterans Affairs (DVA). All students who receive benefits through the Department of Veterans Affairs are advised and counseled by the Veterans Services Certifying Official, Carrington Hall, Room 304, phone (417) 836-4615, FAX (417) 836-3250.

## Chapter Benefits

Benefit programs are described below based on DVA rules and regulations in affect at the time this catalog was published. The DVA may change these rules and regulations at any time. Contact the DVA or the Office of Veterans Services for current information.

**Chapter 32-Veterans Educational Assistance Program (VEAP).** This program provides benefits to persons who initially entered the service after December 31, 1976, and before July 1, 1985. These persons volunteered to contribute money to the Post-Vietnam Era Veteran Educational Assistance Program. Participants receive monthly payments for the number of months they contributed or for 36 months, whichever is less.

**Chapter 30-New Montgomery GI Bill Active Duty.** Persons who entered active duty after July 1, 1985, and had their military pay reduced by \$100 per month for 12 months, may qualify for this program. This is a non-refundable contribution. These persons also must have served a minimum of two years, earned a high school diploma or its equivalent either prior to, or during the qualifying enlistment, and must have an honorable discharge. Other requirements may apply.

**Chapter 1606-New Montgomery GI Bill Selected Reserve/National Guard.** This program provides benefits for members of the Reserve/National Guard who enlisted, re-enlisted or extended their enlistment for a period of six years after July 1, 1985.

**Chapter 35-Dependent or Spouse of 100% Disabled or Deceased Veterans (Service Connected).** This program provides benefits for dependents and spouses of veterans who died or are 100 percent disabled due to service-connected causes.

**Chapter 31-Vocational Rehabilitation Program.** Eligibility for this program is determined by the U.S. Department of Veterans Affairs. This program provides payment of required fees and a monthly allotment.

## Additional Entitlements

**Tutorial Assistance** is available to eligible persons to help with the cost of tutors.

**Veterans Work Study Program** is available to certain eligible students at approved locations.

**Advance Payment** of educational assistance allowance is intended to help students meet school-related and other expenses which are concentrated at the beginning of a term. When a veteran, serviceperson, reservist, or other eligible person enrolls at a half-time rate or more, and is not eligible for an interval payment, he or she may elect, in writing, to be paid in advance for the first initial month or a fraction thereof at the beginning of the term plus the

amount payable for the following month. Students should be aware that if they receive advance payments at the beginning of a fall term commencing in September, they will not receive their November benefit check until after December 1.



## Housing

Residence Life and Services, Hammons House, Phone 836-5536, FAX: 837-2327  
Email: ResidenceLife@missouristate.edu



Moving-in day!

### University Housing Policy

All single students under the age of 21 with less than 30 credit hours are required to live in University housing. All other students are welcome. This requirement is founded on the belief that University housing provides students with the educational and social ground work necessary for continued personal and academic success. All residence halls are air-conditioned, and completely smoke- and tobacco-free.

*Student Housing Contracts* are available after students have been accepted for admission to the University. All new single Freshman students under the age of 21 will be mailed a *Student Housing Contract* following admission. All other new students will be mailed a University Housing Information Request Card to be mailed back if housing is desired. Contracts must be signed and returned with a \$100 security deposit before a reservation is complete. Housing fees are listed at the end of this section of the catalog.

All *Student Housing Contracts* are for the entire academic year (excluding those contracts entered into for the summer session) with food service beginning on the Saturday before classes begin for the fall semester, and on the Sunday before classes for the spring semester. The cancellation policy is explained in the *Student Housing Contract*.

Blair-Shannon House, Freudenberger House, Kentwood Hall, Wells House, and Woods House, as well as the student dining centers, are closed during semester break, and spring vacation. The dining centers are closed for Thanksgiving Holiday. Special arrangements may be made, however, for students requiring housing during these periods for an additional charge.

Rates and policies are subject to change without notice.

The Department of Residence Life and Services will be glad to provide more information on University housing and the Residence Life and Services system, or visit our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=halls).

### Residence Halls – Room Style

**Freudenberger House.** Located at the heart of campus, Freudenberger House is a five-story, U-shaped, residence hall. This hall is designed with double-occupancy rooms with some triplexes and quads available on all single-gender floors. Freudenberger House accommodates 740 men and women. Bedrooms are equipped with a desk, overhead bookshelf, chest of drawers, and wardrobe for each student. Rooms also contain a refrigerator and microwave oven, two desk chairs and two beds. A large central bath area is located on each floor. Freudenberger House residents are encouraged to make use of the grand lounge and TV room, fitness center, recreation room, computer lab, and study rooms. Centralized laundry facilities are also available.

**Woods House.** Woods House is a 10-story, high-rise residence hall with accommodations for 376 males and females. Designed on the double-occupancy room plan, this residence hall offers a refrigerator and a microwave oven, a sink in each room and a central bathroom for each single-gender floor. Built-in bedroom furnishings include a desk and closet space for each student. Beds, desk chairs, and chest of drawers are also furnished. A special feature of Woods House is its tenth floor common area. Offering a beautiful view of campus and the Springfield community, the tenth floor area also provides kitchen facilities, recreation area, laundry facilities, and a fitness center. Located on the ground floor is a computer lab and TV area.

**Wells House.** A completely renovated Wells House opened its doors for 490 men and women for the 2001 fall semester. This U-shaped, centrally located, residence hall is designed with 2- and 3-person room-style accommodations, as well as suite-style living units reserved for upper-class students all on single gender floors. Each room-style living unit is equipped with a desk, desk chair, bunkable bed, overhead bookshelf, chest of drawers and underbed storage space, and wardrobe for each student. Rooms also contain a microwave and refrigerator. The suite-style living units include two carpeted bedrooms connected to a living room providing a sofa, arm chairs, end and coffee tables, dining table and chairs, bookshelf, area rug, and kitchenette complete with sink, microwave, refrigerator, and counter space. A large bathroom is located on each floor providing ample individual stalls and showers. Wells House offers a large grand lounge, TV lounge, fitness and aerobic centers, music practice rooms, vending room, large central kitchen, laundry facility, study lounges, and computer lab.

### Residence Halls – Suite Style

**Blair-Shannon House.** Two high-rise buildings, connected by a ground floor common area, comprise Blair-Shannon House. Centrally located on campus across from the Student Union, Blair-Shannon houses 729 males and females all on single-gender floors. The living areas in Blair and Shannon are arranged by suites. Each suite contains a living room, bathroom, and three double-occupancy bedrooms. Each living room is furnished with two sofas, one arm chair, two end tables, one coffee table, a microwave oven, and full-length mirror. Built-in bedroom furniture consists of two desks and two closets with drawer space and overhead storage. Bedrooms also contain a refrigerator, two movable beds and desk chairs. Every floor includes a laundry facility. One attractive feature of Blair-Shannon House is the convenience of the dining center located on the ground floor. Other features of this residence hall include a fitness center, large computer lab, music practice room, TV lounge, and a grand lounge.

**Hammons House.** Hammons House accommodates 584 males and females in the eight-story residence hall arranged in 2-person and 4-person suites. Each suite is carpeted and has one or two bedrooms, a private bathroom, and a kitchenette with refrigerator, microwave oven and sink. Suites are furnished with a dining set. Bedrooms provide two beds, desks, chairs, wardrobes, and one chest of drawers and underbed storage unit. Hammons House offers rooms for studying, laundry facilities, a TV and recreational room, fitness center, computer lab, convenience store, and a made-to-order diner. Hammons House will remain open during all vacation periods throughout the academic year. Auxiliary services, such as the diner and convenience store, are closed during all vacation periods.

**Kentwood Hall.** Tradition and modern convenience unite at Kentwood Hall to provide residents of this facility with a unique living experience. This residence hall provides furnished 1-, 2-, and 3-person rooms, all with private bathrooms and a refrigerator and microwave oven. Kentwood houses 136 males and females in a coed environment. Students may utilize the Kentwood dining center located on the lower level. Additionally, this facility provides residents with a computer lab, study lounge, TV lounge, fitness center, centralized laundry facilities, and recreation room.

**Hutchens House.** As a companion to Hammons House this facility offers housing accommodations for 605 males and females in both single-gender and coed environments. Each 2- and 4-person suite is carpeted and has a kitchenette with refrigerator and microwave/convection oven, and private bathroom. The bedrooms contain two beds, desk chairs, wardrobes, and one chest of drawers and underbed storage unit. Features include an aerobics workout room, computer lab, and fitness center. Also located in Hutchens House are music practice rooms, a TV lounge, and recreation area. The dining center connects Hammons House to Hutchens House.

**Scholars House.** This honor student living environment opened for occupancy for the first time in the fall of 2000 and provides a special living option to 115 students who are members of the honors program. This suite-style residence hall provides both single-gender and coed living environments. Each suite contains a living room, private bathroom and two double-occupancy bedrooms. The living room is furnished with a sofa, arm chairs, end and coffee tables, dinette set, area rug, and microwave oven. Each bedroom is furnished with desks, desk chairs, overhead bookshelves, bunkable beds, wardrobes, shared storage space including a chest of drawers, and a refrigerator. Scholars House offers ample study rooms, music practice rooms, large central laundry facility, TV and recreation area, fitness center, ice and vending machines, and computer lab.

### Residence Halls – Apartment Style

**Dogwood, and Kentwood South Apartments.** These 41 apartments provide accommodations for married students, graduate students, and non-traditional students (23+ years of age) in one- and two-bedroom apartments. Students with children are only permitted in Kentwood South Apartments. The apartments are completely furnished, carpeted, and centrally heated and air-conditioned. Each kitchen is equipped with an electric range, garbage disposal, and refrigerator. Dogwood residents have access to all services provided by Sunvilla Tower and Kentwood South residents have access to all services provided by Kentwood Hall.

**Sunvilla Tower.** Sunvilla Tower is an 18-story apartment structure which houses 186 males and females. The spacious apartments are furnished and carpeted. The kitchens have an electric cook-top range, oven, dishwasher, refrigerator, and garbage disposal. Two full baths are included in all two bedroom apartments. The bedrooms are equipped with single beds which may be converted into bunk beds. The two-bedroom apartments house five students, and the one-bedroom apartments house two and three students. Sunvilla Tower remains open during all vacation breaks throughout the academic year. Attractive features of this facility include a terrace located on the second floor, a private swimming pool, patio, and grill. A study area, fitness center, recreation room, and computer lab are also available for use by students. Underground garage spaces are available for lease on a first-come, first-served basis. The top five floors of Sunvilla Tower, known as Sunvilla Apartments, offer 21 additional one- and two-bedroom apartments for married (no children), graduate, and non-traditional students (23+ years of age), who have access to all services provided by Sunvilla Tower.

### Semester Residence Hall Rates 2005-2006 Academic year

Residence Hall	Capacity of Living Units	Residency Requirements	Semester Contract Rates Per Student
<b>Room-style with meal plan (closed during holiday breaks)</b>			
Freudenberger House	2, 3, and 4 person rooms	all students	10-meal plan - \$2,402 per semester 14-meal plan - \$2,422 per semester 19-meal plan - \$2,442 per semester Unlimited-meal plan - \$2,490 per semester
Wells House (room-style)	2 and 3 person rooms		
Woods House	2 person rooms		
<b>Suite-style with meal plan (closed during holiday breaks)</b>			
Blair-Shannon House	6 person suites (3 br)	all students	10-meal plan - \$2,537 per semester 14-meal plan - \$2,557 per semester 19-meal plan - \$2,577 per semester Unlimited-meal plan - \$2,625 per semester (1-person Kentwood suites are an additional \$347 per semester)
Kentwood Hall	1, 2, and 3 person suites (1 br)	upper-classmen only	
Wells House (suite-style)	4 person suites (2 br)		
<b>Suite-style with meal plan (open during holiday breaks)</b>			
Hammons House 2-person	2 person suites (1 br)	all students	10-meal plan - \$3,137 per semester 14-meal plan - \$3,157 per semester 19-meal plan - \$3,177 per semester Unlimited-meal plan - \$3,225 per semester
Hutchens House 2-person	2 person suites (1 br)		
Hammons House 4-person	4 person suites (2 br)	all students	10-meal plan - \$2,847 per semester 14-meal plan - \$2,867 per semester
Hutchens House 4-person	4 person suites (2 br)		
Scholars House	4 person suites (2 br)	honor students only	19-meal plan - \$2,887 per semester Unlimited-meal plan - \$2,935 per semester
<b>Apartment-style, no meal plan (open during holiday breaks)</b>			
Sunvilla Tower 2 person	2 person apartment (1 br)	upper-classmen only	\$1,731 per semester (no meal plan)*
Sunvilla Tower 3-person	3 person apartment (1 br)		\$1,565 per semester (no meal plan)*
Sunvilla Tower 5-person	5 person apartment (2 br)		\$1,401 per semester (no meal plan)*
<b>12-month leased apartments for non-traditional students</b>			
Dogwood Apartments	1 bedroom apartments	married, graduate, and non-traditional students only	\$5,064 per 12 month lease (no meal Plan)*
Elm Apartments	1 bedroom apartments		
Sunvilla Apartments (not Tower)	1 bedroom apartments		
Kentwood South Apartments	1 bedroom apartments	married students and students with children only	
Dogwood Apartments	2 bedroom apartments	married, graduate, and non-traditional students only	\$6,744 per 12 month lease (no meal plan)*
Sunvilla Apartments (not Tower)	2 bedroom apartments		
Kentwood South Apartments	2 bedroom apartments	married students and students with children only	
<b>*An optional meal plan may be purchased each semester.</b>			
<b>Optional Meal Plans (for apartments):</b> 10-meal plan - \$630.00 per semester 14-meal plan - \$650.00 per semester 19-meal plan - \$670.00 per semester Unlimited meal plan - \$718.00 per semester		<b>Late-Night Dining Option:</b> For students with a meal plan, this option provides access to a dining center from 10 p.m. to Midnight, Sunday through Thursday - \$160.00 per semester	<b>BearFare Plans:</b> 15 BearFare Meals (\$3.75 each) - \$56.25 per semester 35 BearFare Meals (\$3.65 each) - \$127.75 per semester 50 BearFare Meals (\$3.55 each) - \$177.50 per semester

## University Activities, Resources and Services



Robert W. Plaster Student Union

### Academic Advisement Center

The University has a central Academic Advisement Center which serves students with undecided majors. Refer to the University College section of this catalog for a description of the services available to students.

### Achievement Center for Intercollegiate Athletics

The Achievement Center for Intercollegiate Athletics is a service for student-athletes participating in NCAA intercollegiate sports. The staff provides comprehensive services that complement other student services. This includes study hall and computer facilities, tutorial help, registration services, and monitoring NCAA satisfactory progress. The Center is located in Forsyth Athletic Building.

### Adult and Evening Student Services

The University recognizes that many students are adults who must attend college on a part-time basis and assume a variety of other responsibilities along with their academic work. For that reason, a wide range of services are offered through the Adult Student Services/Evening College office. A few services include: adult student orientation, non-degree undergraduate and postbaccalaureate non-degree admission, evening/weekend office hours, scholarships, academic advising, and registration. For additional information on these services, see the Continuing Education section of this catalog or call or visit the College of Continuing Education, Carrington Hall 422, (417) 836-6929 or toll free at (888) 879-7678.

### Alumni Association

The principal organization through which students continue their affiliation with the institution once they leave campus is the Alumni Association.

One of the primary goals of the Alumni Association is to maintain current records of all alumni. At present, the alumni population includes more than 79,000 graduates and former students. The Alumni Association communicates with alumni on a regular basis through publication of the *Missouri State Magazine*. Each issue provides a wide variety of articles about people and programs on campus, as well as updates about fellow alumni. The *Missouri State Magazine* is mailed three times annually to all alumni with a current address in the Office of Alumni Relations.

Throughout the year, the Alumni Association makes available an assortment of programs and activities to help alumni stay in touch with the University, including chapter meetings, Homecoming, class and special reunions, promotional events, the Flying Bears travel program, the collegiate license plate program, and the Missouri State MasterCard. Additionally, the Student Alumni Association allows current students an opportunity to become aware of the programs of the Alumni Association and participate with alumni in a variety of activities.

The Alumni Association is a non-dues paying organization, and all alumni are viewed as members. However, all graduates and former students are encouraged to support their alma mater by making a contribution to the Greater Annual Fund. The Alumni Association offices are located in The Alumni Center at 300 South Jefferson in downtown Springfield.

## Art and Design Gallery

Exhibitions change monthly during the school year. Each year the exhibition schedule includes a Faculty Show and additional shows that vary from year to year, including individual shows by distinguished artists and designers from all regions of the country. The Art and Design Gallery is located on the corner of Walnut and Jefferson. Hours are Sunday & Monday closed, Tuesday and Wednesday 12:00-5:00 pm, Thursday 12:00-9:00 pm and Friday and Saturday 12:00-7:30 pm.

## Bookstore

The University owned and operated bookstore is a self-service bookstore where students can purchase textbooks as well as all course related material, reference books, trade books, academically priced hardware, software and peripherals. Some of the services provided include a computerized textbook system to provide any enrolled student with a list of the required textbooks for his/her classes, a textbook reservation program, on-line textbook orders, and textbook buyback. The bookstore also carries art, drafting, science and other classroom supplies in addition to health-related items, a variety of official Missouri State clothing, and a full service Clinique counter. Cash, checks, ZipCard, American Express, Discover, MasterCard and VISA are accepted as well as charges to your Deferred Payment Plan account.

An automatic teller machine of a local bank located at the front entrance to the bookstore provides 24-hour service.

**BearHouse Tech Center**, an affiliate of the Bookstore located in the Plaster Student Union, provides computer hardware, software, peripherals, and supplies, PDA's, electronics, and a wide selection of current CD's and DVD's. BearHouse also offers the latest in wireless technology carrying Sprint PCS phones and wireless accessories. Stop by for all the latest specials. Cash, check, ZipCard, American Express, Discover, MasterCard, and Visa are accepted as well as charges to your Deferred Payment Plan account.

## Bureau of Economic Research

The Bureau serves as a depository of economic data relevant to the Ozarks region. It distributes that information to interested parties to encourage economic research and to stimulate interest in special projects. The Bureau was established in 1971 and is within the College of Humanities and Public Affairs.

## Bursar's Office

Required students fees, residence hall charges, parking tickets, telephone long distance charges, short-term loans, and ZipCard deposits are payable at this office. MasterCard, Visa, Discover, and American Express cards are accepted at the Bursar's Office as well as by phone and internet.

Students may cash personal checks and two party checks from their parents, made payable to the student, with a valid University ID. The limit is \$50.00 per day.

The Bursar's Office has two locations with the main office on the first floor of Carrington Hall and a drive-up branch office at 700 E. Elm. Hours at both locations are 8:30 a.m. to 4:30 p.m. A drop box is available on the first floor of Carrington Hall for after hours and weekend payments.

## Camp Bear

Camp Bear is a summer day camp program offered for youth entering grades K-9. The program offers an exciting mix of academic enrichment classes and recreational activities for all youth from the community. Eight separate one-week sessions are offered and enrollment can be for either full or half days. Two academic enrichment classes are offered each day that are designed to be fun, to stimulate curiosity and discussion, and to encourage a love for learning. Limited class sizes make this an outstanding environment for personalized attention by professional educators. The recreation activities are organized and planned according to grade level, interest and abilities of campers. There is always an emphasis on safety, sportsmanship, conduct, communication, teambuilding, and leadership. For information, contact the Center for Continuing and Professional Education at (417) 836-6660, or visit the web site at [cce.missouristate.edu/syp](http://cce.missouristate.edu/syp).

## Campus Ministers Association

Missouri State University recognizes the significant and historical support provided to students by the members of the Campus Ministers Association (CMA). The purpose of the Association, as well as the forum provided by CMA to encourage the role of spiritual values within the University community, is consistent with the Community Principles established by Missouri State University: In recognition of the ethical responsibilities established in the CMA constitution, the activities provided by CMA in support of the University and its mission, and the coordination and facilitation efforts among respective ministries, annually defined nominal privileges are provided to designated members of the CMA. These privileges are coordinated by a designee of the Vice President of Student Affairs and reflect the community partnership dedicated to developing educated persons.

## Career Services

Career Services is devoted to helping students explore career options, research occupations, integrate knowledge gained in the classroom with off-campus employment, and prepare for job searching.

### Career Counseling

With so many options available to students, selecting an academic major often presents an overwhelming challenge. Through an individual appointment with a career counselor, students are able to learn more about themselves and explore majors and occupational choices through assessments. Examples include the Myers-Briggs Personality Inventory, Self-Directed Search Interest assessment and FOCUS II computer system for career planning.

In addition, staff members can assist students in finding current information on hundreds of career possibilities. Discovering the working conditions, job outlook, average salary, and education or training requirements can help in making those important academic and career decisions.

The IDS 120 course, *Approaches to Career Life Planning*, offers a variety of tools for self exploration and information on the world of work. The course guides students through the career development process using a comprehensive approach.

Job shadowing is encouraged so that students can obtain first-hand knowledge about career options from professionals working in the community. These professionals share valuable insights that help students make career decisions.

### **Cooperative Education**

Once students reach a preliminary career decision, a cooperative education experience or internship offers an exciting way to determine if that career choice is the right one. Through cooperative education (CO-OP), students can receive academic credit, earn a salary, and gain valuable work experience in their career. This work experience not only supplements what students are learning in the classroom, but it also puts them steps ahead when interviewing for jobs after graduation.

Students may choose from a variety of options within CO-OP. The parallel option offers part-time employment while taking classes. Another option is the alternating semester, with students alternating between taking classes full time one semester and working full time the next semester. Other options include non-paid internships, a one-semester internship, or a summer term.

### **Job Search Assistance**

After students have made a career choice and have participated in a CO-OP experience, it is time to focus on "life after Missouri State." For some students, this means graduate or professional school. For others, it may mean securing meaningful employment following graduation.

Career Services provides direct assistance through on-campus interviews, job vacancy listings, referrals to employers, and career fairs.

Students may make appointments for professional advice on preparing resumes, writing cover letters, learning proper interview techniques, preparing portfolios, and conducting successful job searches. Staff members conduct videotaped mock interviews to help students practice and improve their interview skills. Additionally, staff members can help students learn how to research employers and find employment opportunities.

A sampling of employers who have hired Missouri State students include Hallmark, Sprint, Cerner, Edward Jones, Tyson Foods, Inc., Baird, Kurtz & Dobson, Enterprise Rent-A-Car, Kraft, Boeing, Wal-Mart, Sherwin Williams, Principal Financial Group, Ford Motor Credit, many government agencies, non-profit organizations, and school districts.

For more information on Career Services, visit our web site at [www.missouristate.edu](http://www.missouristate.edu) (Keyword = Career Services) or contact us at Career Services, Carrington 309, (417) 836-5636.

### **Carillon**

Forty-eight bronze bells, their cast iron clappers, and a keyboard from Asten, Netherlands, comprise the Jane A. Meyer Carillon located within the tower on the corner of the Duane G. Meyer Library. The bell frame which supports the 32,660 pounds of bells was hoisted into the new 140-foot, 2.5 million pound bell tower on August 16, 2001 by engineers from Royal Eijsbouts in the Netherlands who cast the bells.

A Westminster chime strikes at each quarter hour and starts 25 seconds before the hour with the first strike of the bell marking the hour. Several free concerts are given on weekends throughout the year.

## **Center for Applied Science and Engineering**

The Center for Applied Science and Engineering was established to provide engineering and technical support, and to conduct research in an effort to increase the development of advanced technology industry in Missouri. It will also provide educational support for employees, material and testing services, instrumentation and support, and environmental/energy audit services. The Center was established in 2003 and is within the College of Natural and Applied Sciences.

## **Center for Archaeological Research**

The Center is designed to study, record, and share knowledge of past cultures, as well as conduct research studies for various private and public agencies. The information gained from archaeological research is then disseminated through a variety of scholarly outlets and educational programs. The Center was established in 1975 and is within the College of Humanities and Public Affairs.

## **Center for Assessment and Instructional Support**

The Center was created to develop and implement the University's assessment program and to provide faculty with unique opportunities for the development, acquisition and/or enhancement of their instructional methods. The Center conducts a comprehensive multidimensional program to assess student learning outcomes, to disseminate the results of Center studies to constituents, to collaborate with faculty in the design and implementation of strategies for academic program improvement, and to provide faculty instructional support. The Center coordinates student outcome assessment planning to provide assessment and to apply the assessment results to promote continuous improvement in student learning. The Center coordinates placement testing for new students; assessment in academic majors; assessment of general education; and surveys of student, alumni, employer, and faculty opinions. The Center provides instructional support through workshops, seminars and reference materials. The Center was established in 1987 and reports to the Vice President for Academic Affairs.

## **Center for Business and Economic Development**

The Center for Business and Economic Development was established in 1981 and is the outreach arm of the College of Business Administration, and as such, its activities are primarily aimed at helping public and private sector entities improve their management abilities, and help create and retain job opportunities for American workers. The efforts of the Center are primarily handled through the following programs:

The **Small Business Development Center** provides general management and technical assistance to small enterprises in southwest and south central Missouri. It also has a state-wide mission in the area of international business and is

a satellite office of the World Trade Center in St. Louis. Counseling is offered in strategic planning, market research, cash flow analysis, procurement, exporting, and a variety of other areas. Center offices are located on both the Springfield and West Plains campuses.

The **Management Development Institute** provides a broad base of noncredit programs and seminars in such areas as management, supervision, human resources, strategic planning, and many other business areas. Professional certification programs and special in-house training programs are also provided for both public and private sector organizations.

The **Center for Industrial Productivity** is dedicated to assisting business and industry in research, development of new manufacturing technologies, and training of professionals involved in manufacturing. The primary objective of the Center is to support area business and industry in their pursuit of manufacturing excellence in their management practices, application of new technologies, and efforts to remain competitive in the global market place.

### Center for Research and Service

The Center for Research and Service provides academic, scientific, and methodological resources to constituents within and outside of the University to forward the public affairs mission. The Center was established in 1984 and is within the College of Health and Human Services.

### Center for Resource Planning and Management

The Center provides educational training, applied research, and community outreach services in the field of urban planning and community development. Services provided to local governments, state and federal agencies, and civic organizations include small town planning, comprehensive planning, grant writing, economic development planning, digital cartographic services, and specialty planning services. The Center is an affiliate census data center of the Missouri State Library and is the administrative agent of the Southwest Missouri Advisory Council of Governments. The Center was established in 1988 and is within the College of Natural and Applied Sciences.

### Center for Scientific Research and Education

The Center promotes scientific research, service, and educational activities by matching the professional expertise and physical facilities of the College of Natural and Applied Sciences with the needs of private firms, not-for-profit organizations, government agencies, and educational institutions. While serving the University's external constituents, the Center provides research and service opportunities for faculty and students. The Center operates the Missouri Virtual School for those K-12 schools that need instruction in mathematics, the sciences, or foreign languages. The Center was established in 1984 and is within the College of Natural and Applied Sciences.

### Center for Social Sciences and Public Policy Research

The Center for Social Sciences and Public Policy Research (CSSPPR) is an interdisciplinary center where faculty and students conduct both applied and theoretical research in the social sciences and humanities. The Center conducts research sponsored by public and private organizations on a variety of issues of local, state, and national concern. The Center's research efforts foster an understanding of what constitutes effective public policy and how it is created. The Center was established in 1986 (as the Center for Social Research) and is within the College of Humanities and Public Affairs.

### Child Development Center

The Child Development Center (CDC) provides a preschool program for children aged 6 weeks to 5 years as well as a learning laboratory experience for students. This program brings faculty and students together with a common interest and goal of working with young children and their families to provide a healthy, nurturing, and learning environment that builds a strong foundation of the skills necessary to develop into life-long learners and productive citizens. Students have the opportunity to link educational theory with practice by observing young children participating in a high-quality, developmentally appropriate early childhood program.

The Child Development Center is licensed by the Department of Health and Senior Services and is accredited by the Missouri Accreditation (MoA) of Childhood Care and Education Programs. The Center operates Monday-Friday from 7:00am-5:30pm. Children of students, faculty, staff, and those from the surrounding community may enroll as space is available. For enrollment or other information contact Dr. Mark Casertano, Director, at (417) 836-6759 or 836-7650, or visit the Child Development Center located in the Professional Building.

### Citizenship and Service-Learning

For students interested in earning academic credit for meaningful and productive community service, there are two options.

#### Service-Learning Component Course

The **Citizenship & Service-Learning (CASL)** program enables a student to earn an additional credit in selected courses in exchange for the learning acquired by completing 40 hours of service that is relevant to course content and benefits an external government or non-profit agency. Each department that offers service-learning (SL) provides a 300- or 500-level, one-credit service-learning component course whose hours are arranged. A student who wants the service-learning option will simultaneously register for the SL designated course and the SL component course.

The service-learning credit is awarded for the demonstration of learning that results from the service rather than the service itself. A reflection component is key to the critical thinking that a student will engage in during the experiential experience with the community partner.

### Integrated Service-Learning Course

A stand-alone Integrated Service-Learning (ISL) course has all of the aspects of experiential education, reflection, and assessment integrated into the substance of the course. The community service experiences of the students are not just a sidebar, but are an integral part of the course. **ISL** is conceptualized as a pedagogical model that connects meaningful community service experiences with academic course learning. When service-learning is integrated into an academic course, the course credit is assigned for both the customary academic learning as well as for a minimum of 15 hours of work with a governmental or not-for-profit organization. The student's grade is for the *quality of learning* as identified through reflection mechanisms determined by the course instructor.

Most academic departments provide service-learning options for selected undergraduate and graduate courses. See the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = service learning) for a complete listing of the regular curricular courses designated to accept the **SL** one-hour component option and those with the **ISL** designation, or visit the CASL office in Plaster Student Union room 209, (417) 836-5774.

### Community Service Opportunities

The public affairs mission at Missouri State has given strong emphasis to the role of community service in the development of the educated person. Community service typically increases students' sensitivity to the needs of the community and their competency to contribute to society. Those characteristics are fundamental to the leadership roles for which higher education prepares students.

There are over 250 student organizations on campus. Eleven of them are especially focused to provide community service. Over 30 departmental organizations include community service in their activities. Most of the Greek organizations include community service in their chapter activities as do many of the campus religious organizations. An increasing proportion of all student organizations are including service projects in their activity schedules.

In addition to the many student organizations involved in volunteer public service, the University maintains a Campus Volunteer Center at Blair-Shannon 113, where opportunities for volunteers are listed and assistance is offered to students and groups interested in community service. For more information, visit the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = volunteer center, campus).

The Student Community Action Team (SCAT) is a registered student organization dedicated to serving the Springfield community. The purpose of SCAT is to promote civic responsibility among college students through community service, which address priorities of the local community in the areas of education, the environment, public safety, the economy, or human needs. The SCAT program allows Federal Work-Study eligible students to serve an average of 15 hours a week with an area not-for-profit agency for the fall and spring semester of the academic year as their Work-Study assignment. Through their participation, SCAT members broaden their educational experience and awareness of community needs along with providing valuable services, insight, and energy to Springfield community agencies. For more information, visit the SCAT web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = SCAT).

### Computing

Missouri State provides its students with a robust computing and networking environment. More than 2,000 computers are available for student use within 78 classrooms and labs. Most also contain a variety of printers, scanners, and other peripheral devices, as well as technical support specialists to provide assistance. More than 50 classrooms have digital media systems. Both PC and Macintosh platforms are supported and available on campus, and a 24-hour computer lab is available during weekdays. Assistive technologies are provided to students with disabilities in all Computer Services open labs. A common suite of software applications are provided on most university computers to promote ease of interoperability between facilities.

Electronic mail accounts (with 20MB space per student) are available to all students at no cost. A web-based e-mail client (Outlook Web Access) makes this service available from anywhere on the Internet. Students are also provided 25MB of disk space to post personal web pages.

The campus high-speed data network is large and growing. All networked computers are provided with either 10MB or 100MB connectivity to the university network. Dial-in access is available to all students as a value added service, providing free access to the Internet and other campus computing resources from off campus. Some restrictions apply. 325 modems, dial-in CD-ROMs, and help desk services are provided to support remote access.

### Conference Services

(See the "Plaster Student Union" section)

### Convenience Stores

Convenience stores are affiliates of the Missouri State Bookstore and are staffed by students. Cash, checks, ZipCard, American Express, Discover, MasterCard and VISA are accepted as well as charges to your Deferred Payment Plan account.

**Bear Necessities:** Located in Plaster Student Union, provides snacks, school supplies, photo finishing, campus wear and sundry items for students.

**ETC:** Located in Hammons House, provides snacks, school supplies, campus wear and sundry items.

### Copy This...

Copy This... is a full-service copy center for student, faculty, and staff use. The facility features color and black/white copying, poster/banner makers, lamination, binding, and finishing services (drilling, cutting, padding, folding, stapling, collating). We also have both Macintosh and Gateway computers ready for multimedia production. FAX services and a full selection of materials are also available. Copy This... is located in Plaster Student Union 210, 836-5808. Copy This... is open Monday through Thursday from 8:00 a.m. to 11:00 p.m., Friday from 8:00 a.m. to 5:00 p.m.

### Counseling and Testing Center

The primary goal of the Counseling and Testing Center is to promote the student's personal development and psychological well-being. Services are provided for individuals with personal-



social concerns and life-planning issues. Experienced mental health clinicians and graduate students assist students in resolving conflicts which may interfere with their progress in the University.

The Counseling and Testing Center adheres to the American Counseling Association (ACA) and the American Psychological Association (APA) professional codes of ethics in providing all services. Such services are strictly confidential. No information, including whether an individual has received counseling, will be released without the informed written consent of the student except in certain emergency situations.

### Counseling Services

**Assessment.** An initial screening is provided immediately after an individual completes an information form. The purpose of this first meeting is to explore the student's concerns and to make decisions about the type of resources that may be most helpful. For an initial interview, students may come to the Counseling and Testing Center in Carrington Hall 311 between 8:00 a.m. and 4:00 p.m., Monday through Friday, (417) 836-5116.

**Individual/Couples.** Individuals or couples may work with a counselor/psychologist in order to identify, understand, and resolve personal and relationship difficulties.

**Group.** At times issues are most effectively dealt with in a supportive environment where interaction with others occurs. Groups are structured to promote personal growth and skill development by focusing on particular concerns such as: adjustment to university life; balancing work, family, and academics; and establishing and maintaining meaningful relationships.

**Emergency.** Crisis intervention is provided to deal with situations which require immediate attention.

**Outreach.** Special programs and workshops designed to define and/or prevent problems and improve the quality of the University experience are presented on a regular basis, as well as by request. These offerings provide information, techniques, and strategies relevant to specific topics of interest such as stress management and communication skills.

**Consultation and Referral.** The Center's staff is willing to share its expertise with University administration, faculty, staff, and students. If assistance from other departments, professionals, or agencies is indicated, the staff will facilitate such contacts.

### Testing

Interest tests and personality inventories are used to clarify personal strengths and concerns. In addition, more than 30 different testing programs such as American College Testing Program (ACT), Graduate Record Examination (GRE), and General Education Development (GED) are administered by the staff. Other frequently administered tests include the Professional Assessments for Beginning Teachers (PRAXIS), College Basic Subject Examination (CBASE), and Scholastic Aptitude Test (SAT).

### Dance

Dance concerts are presented annually as part of the cultural attractions available to the community. A faculty choreographed dance concert is presented each spring semester. Student choreographed studio programs are presented each semester, and advanced student work is selected for a full-fledged concert. Theatre productions often include dance as an integral element. Inertia Dance Company is the resident student organization which

gives dance lecture-demonstrations and concert works to schools and groups throughout the geographic area.

### Dean of Student's Office

The Dean of Student's Office provides and supports a variety of programs and services designed to enhance each student's life. Those programs and services are highlighted in this publication. There are other programs which are co-sponsored with other departments in Student Affairs and with academic departments. Any member of the campus community interested in becoming more involved in programs offered, or in need of services provided by this office is invited and encouraged to drop by Plaster Student Union, Room 405, or call (417) 836-5527.

**Disability Services.** Disability Services (DS) helps ensure an equitable college experience for students with disabilities at Missouri State University. Academic accommodations are available at no cost to students who can provide documentation of a disability and can demonstrate that the requested accommodations are necessary for participation in university programs within established guidelines. DS provides services to students with disabilities that are physical and/or medical in nature. The Learning Diagnostic Clinic (LDC) provides services to students with learning disabilities, Attention Deficit Disorder (ADD/ADHD), and psychological disabilities.

Academic accommodations coordinated by DS include, for example, sign language interpreters, out-of-class testing, taped textbooks, note takers, adjustable tables, closed captioning, etc. An Assistive Technology lab is located in Cheek Hall 150 and is staffed by the Assistive Technology Support Specialist and lab assistants.

Any prospective or currently enrolled student interested in obtaining information about academic accommodations at Missouri State University should contact Disability Services, Plaster Student Union, Room 405, (417) 836-4192 (voice) or (417) 836-6792 (TTY)

**Educational Programming.** Special programs for the University community that are co-sponsored by the Dean of Student's Office include: the annual Student Leadership Conference, time and stress management, recognition of outstanding members in student organizations, motivating students, and sexual assault prevention programs.

**Emergency Contacts.** The Dean of Student's Office facilitates communicating emergency messages to students. Call (417) 836-5527. If after normal business hours, call Safety at (417) 836-5509.

**Judicial Affairs.** In cooperation with the Faculty-Student Judicial Commission and other student judiciaries, the Dean of Student's Office coordinates campus judicial affairs and, when appropriate, processes alleged violations of University policies and regulations. Alleged violations may be resolved in this office or, by student choice, through an official hearing.

**Legal Services for Students.** An attorney is available for consultation with students Wednesday mornings at 8:00 a.m. while classes are in session, provided the student makes an appointment (836-5527) at least a day in advance. Students are seen on a first-come, first-served basis. The attorney does not provide legal representation in conjunction with these consultations.

**Publications.** This office produces several publications including:

The web site *www.missouristate.edu/campuservices/policies.htm* – serves as the student’s primary directory and links to University information, policies, and procedures that are relevant to current students.

*Student Organization Handbook* – resource for student organization policies, advising assistance, and related services.

The web site *studentorganizations.missouristate.edu* – provides a list of all recognized student organizations.

The web site *www.missouristate.edu/disability/handbook/index.htm* describes services available to students with disabilities.

*Family Guide* – answers frequently asked parental questions and provides information about the University.

## Debate

Missouri State boasts a tradition of excellence in debate. The debate program is as old as the university itself and has consistently been one of the top debate programs in the nation. In 1992, Missouri State won first place at the Cross-Examination Debate Association (CEDA) National Tournament. Missouri State students have appeared in the “Sweet Sixteen” of college debate in eight of the last ten years, including a second place finish and two additional Final Four appearances. Missouri State is also the only school in the nation to have hosted both the CEDA National Tournament and the National Debate Tournament (NDT). Missouri State students participate in NDT debate.

Within this tradition of competitive excellence lies a commitment to the education of the individual student. Missouri State debaters are consistently admitted to top graduate programs and law schools. The Holt V. Spicer Debate Forum features a national and regional travel schedule designed to offer each student the optimum level of participation. For more information about the forensics program, contact the Department of Communication.

## Degree Check

(See the “Records and Registration” section)

## Dining Services

Sodexo Campus Services, the largest contract food service provider in North America, provides nutritious, quality food with excellent service and variety for the entire campus. Three dining facilities (Kentwood, Blair-Shannon, and Hutchens) offer an all-you-can-eat format with a diverse menu that will appeal to everyone. Two of the dining halls are open from 7:00 a.m. to 7:00 p.m., Monday through Friday, with weekend hours to accommodate the busy student’s schedule. Students may choose from four different meal plans to meet their individual needs: 10, 14, or 19 meals a week or our Unlimited Meal Plan which allows access to the dining center as many times a day as desired whenever they are in operation.

The Plaster Student Union Food Court currently offers great fast food restaurants and snack bars such as Blimpie’s, Churchill’s Coffee, Domino’s Pizza, I Can’t Believe It’s Yogurt, Madison Street Grill, Smoothie Island, and Wok & Roll. Boomer’s is located in

Hammons House and serves gourmet deli sandwiches, soups, and desserts. Hours of operation for these restaurants may vary throughout the year.

## Directory

The University publishes a directory each fall semester with information on students enrolled for the fall semester. A current directory of enrolled students is continuously updated and available on the web site at *www.missouristate.edu* (select the “people” category on the FindIt Feature). The directories may include the name, local address, local telephone number, University email address, classification, and department of major for all students. The directory also contains name, department, office location and telephone number of all faculty and staff members.

Students who do not want their directory information printed must complete a “Refusal to Permit Disclosure of Directory Information” form in the Office of Student Affairs, Carrington Hall 200 prior to September 1 for the printed directory or at any time for the web directory. Faculty and staff who wish to restrict the release of directory information must contact the Office of Human Resources, Carrington Hall 118 prior to September 1 for the printed directory or at any time for the web directory.

The directory generally becomes available for distribution in October through the Dean of Students Office.

## Disability Services

(See the “Dean of Students” section)

## Dramatic Performance Activities

The Department of Theatre and Dance affords students with theatre and dance talent an avenue of expression and provides the campus community with entertaining and worthwhile productions.

Several directed productions, including plays, musicals, operas, children’s plays, and performance pieces, are presented each year. Productions directed by students, both graduate and undergraduate, are also presented. Through participation in these productions, students gain practical experience in constructing and painting scenery, making costumes, applying makeup, light control technology and acting in outstanding plays of all periods. Productions are presented in Cogger Theatre, the intimate Balcony Theatre in Craig Hall, Carrington Auditorium, and Juanita K. Hammons Hall for Performing Arts.

One of the area’s favorite summer attractions is Tent Theatre. From June through July three shows, including musicals, are presented to local and regional audiences. This popular entertainment has been thrilling theatre-goers for over forty years.

The In-School Players, a group of advanced students chosen from audition, prepares original theatrical material to tour to area elementary schools two afternoons a week through the late fall and spring semesters. The Inertia Dance Company, a group of advanced students chosen from audition, prepares a presentation to tour to area elementary schools and a concert program for adult audiences.

## E-mail Accounts

(See the “Computing” section)

## Emergency Contacts

(See the “Dean of Students” section)

## English Language Institute

The English Language Institute (ELI) is a multi-level course of study for students whose primary language is not English. Most of our students are preparing to enter an American university to earn a bachelor’s degree or a master’s degree. Other ELI students study in our program for a semester or two to improve their English skills for professional or personal reasons. The English Language Institute serves the needs of graduate, post-baccalaureate, and post-secondary ESL students. Through an intensive twenty-five hours per week, students have the opportunity to prepare for the language challenges of American classrooms. The focus of the English Language Institute, therefore, is to equip ESL students with the necessary language skills to achieve success in the degree program of their choice and to enhance their potential for future employment after graduation.

## Foreign Languages

The Department of Modern and Classical Languages offers a variety of activities to students to supplement its academic programs. The department sponsors conversation tables, honorary societies, and cultural activities. Travel and study tours to Canada, Costa Rica, Germany, and Spain are offered to provide direct language and cultural experience. The department also sponsors public service activities related to the study of foreign language and culture.

## Games Center

(See the “Plaster Student Union” section)

## Greek Life

(See the “Plaster Student Union” section)

## Hammons Hall

The Juanita K. Hammons Hall for the Performing Arts is a 2,220 seat multi-purpose performance facility owned and operated by Missouri State University to serve the needs of the community and region. Hammons Hall presents a full season of performances which includes touring Broadway musical productions, single performances covering the gamut of entertainment from classical music to jazz to dance to theatre, children’s shows, and an emerging concert artists recital series. In keeping with Hammons Hall’s mission to serve the student population, university concerts, recitals and lectures are also part of the season’s schedule. Community arts tenants include the Springfield Symphony and Springfield Regional Opera.

## Hammons Student Center

The largest indoor facility in southwest Missouri has been home to Missouri State athletics since the 1976-77 season. With a seating capacity of 8,846, HSC hosts basketball, volleyball, swimming events, concerts and a variety of community events. HSC contains athletics and building administration offices, as well as offices for coaches, a lounge area and large varsity locker rooms.

HSC is available for recreational use by students, faculty, staff and alumni. The facility contains an eight-lane, 25-yard swimming pool with one- and three-meter diving boards, racquetball courts, an indoor rifle range, and basketball courts. Recreational users of the facility are requested to show a valid University ID card or membership card prior to being admitted. In order to insure only eligible persons use HSC, the south doors have been designated as the recreational entrance and exit. Other entrances are used only for special event programming. Open recreational hours are limited due to athletic teams and classes using the facilities. See [www.missouristate.edu/hsc/hours.htm](http://www.missouristate.edu/hsc/hours.htm) for current recreational hours.

## Health and Wellness Services

Taylor Health and Wellness Center is located at the southwest corner of Florence and Monroe Streets, north of the University’s bookstore. The following health services are provided: primary clinic for diagnosis and treatment of illnesses and injuries, women’s health services, nursing treatment (including allergy injections and immunizations), a full-service pharmacy with both prescribed and over-the-counter medications, diagnostic laboratory testing, radiological procedures and interpretations, and wellness programming which emphasizes positive lifestyle choices. Consultation services are also provided in orthopedics, internal medicine, general surgery, radiology, and psychiatric care.

An appointment may be made at Taylor Health and Wellness Center by calling (417) 836-4000. The clinic is open Monday-Friday, except on University holidays. Health services are provided by a staff of physicians, nurses, pharmacists, technicians, and support staff.

Students enrolled at the University are assessed a health fee which is included in their required fees. Students receive unlimited pre-paid basic office visits each semester when seeing one of the clinic providers. There is an office visit fee for seeing one of the clinic physicians for longer office visits and the consulting physicians. Charges are incurred for laboratory tests, x-rays, pharmacy items, and for certain other procedures. Services may be paid for by cash, check, Discover Card, Visa, MasterCard and American Express, or may be charged to the student’s university account, if enrolled in the deferred payment plan.

Spouses of students may receive service at the health center including pharmacy. They will be charged for laboratory tests, x-rays, and pharmacy items in addition to an office visit. The student, along with the spouse, must enroll for this program at the center before the spouse receives any services. Call Taylor Health and Wellness Center at (417) 836-4000 for details.

## Medical History

A self-completed medical history is required of all students. The health form is sent to new students after they are admitted. Copies may also be obtained at the Taylor Health and Wellness Center or on our web site at [health.missouristate.edu](http://health.missouristate.edu). A completed form must be on file at the Center before the student is eligible for medical care.

A physical examination is strongly recommended, although not required, before undertaking the rigors of college courses. Students who have an examination done should request the examining physician to send a report of that examination to the Director of the Taylor Health and Wellness Center.

A pre-entrance tuberculin skin test is strongly recommended for all students and should be performed by the student's family physician or some other licensed physician or county health department. The report of the results may be placed on the self-completed medical history by the persons performing the test.

Students found to have communicable diseases may, at the discretion of a university physician, be excluded from classes, placed in isolation or referred for treatment until they are no longer a danger to others. Students who show evidence of mental illness to a degree that it interferes with their own class work or with the activities of others may be excluded from classes and referred for evaluation by a psychiatric consultant of the University. Depending upon the results of the evaluations, a student may be returned to class, referred for treatment or suspended. Readmission to classes or permission to re-enroll will be permitted only upon recommendation of the Taylor Health and Wellness Center psychiatric consultant.

### Student Insurance

The University provides a \$500 per occurrence, EMERGENCY accident-injury insurance plan for students who are enrolled in 7 or more credit hours. **The plan is to assist with the cost of claims in case of an emergency only when Taylor Health and Wellness cannot provide the service.** The plan is not primary insurance and will not cover claims if the person has other insurance, until all other plan claims have been adjudicated. Contact Taylor if you have questions about the plan's coverage or to file a claim.

A student group health and accident insurance plan is available to all registered undergraduate students taking 6 or more credit hours. Graduate students must be enrolled in at least one graduate level class, in good standing, and making appropriate progress toward graduation. All International students with an F-1 or J-1 visa are required to enroll in the plan. Eligible dependents of International students may enroll in the plan by completing an enrollment form and sending their premium directly to the insurance company. Dependent coverage is available to all students who are enrolled in the plan. This supplementary insurance helps cover part of the costs of hospitalization, surgical treatment, nursing service, ambulance, anesthetist, and other types of medical care. It is advisable for students to assess their health coverage programs(s) before starting school to determine if this policy would benefit them.

### Wellness Center

The Wellness Program provides students with educational activities, programs, and resources on a variety of health-related topics. Information and programs are available in the areas of alcohol and other drugs, stress management, general nutrition and weight management, smoking cessation, sexuality issues, physical fitness, and other wellness topics.

Students who are interested in becoming involved in wellness activities and advising the Center's administration on numerous issues are encouraged to join the Student Health Advisory Committee (SHAC). For more information about the above programs, contact the Wellness Center's Director at (417) 836-4000.

## Information Center

(See the "Plaster Student Union" section)

## Institute for School Improvement

The Institute for School Improvement (ISI) is a research-based laboratory that examines the impact of programs, policies, and practices on teaching and learning. Operating under the slogan, "linking theory to practice," ISI also provides administrative oversight for a number of professional development programs. ISI is currently one of three support units in the College of Education and is an affiliate of the Professional Education Unit, designed to improve schooling by assisting PK-12 teachers, students, administrators, and university faculty. The following auxiliary organizations and individuals report to the Director, ISI: Accelerated Schools, Southwest Regional Professional Development Center, Select Teachers As Regional Resources, Missouri Reading Initiative, Missouri Math Initiative, Blindness Skills Specialist, Missouri Department of Elementary and Secondary Education Area Supervisor, Missouri State / Southwestern Bell Literacy Center, and the USDE Title II Ozarks Partnership Teacher Enhancement Initiative. The Institute's research includes descriptive, predictive, and applied studies that focus primarily on curricular and instructional processes as they relate to classroom practice and student outcomes, including student achievement. The Institute was established in 1998 and is within the College of Education.

## Intercollegiate Athletics

Missouri State is committed to an intercollegiate athletics program which complements the mission of the University and operates in accordance with the principles and regulations of the National Collegiate Athletic Association. As a member of various athletics conferences, Missouri State is committed to academic and athletics excellence, sound fiscal management practices, enhancement of the physical and educational welfare of student-athletes, equal opportunity, character development, principles of amateurism, as well as the fundamental values of sportsmanship, civility, and the common virtue of good citizenship.

Athletics at the University are a part of the total educational program. The prime function of athletics is to provide opportunities for student participation and personal development. A faculty intercollegiate athletic committee provides advice and guidance to the athletics administration.

The University is a member of the National Collegiate Athletic Association (NCAA). All sports participate in Division I of that association except football which competes in IAA.

**Intercollegiate (Men).** The men's intercollegiate athletic program fields teams in baseball, basketball, cross country, football, golf, indoor track, soccer, swimming, tennis, and track and field. Some athletic grants-in-aid are available in each sport.

In football, the University is a member of the Gateway Collegiate Athletic Conference (GCAC). The football division of the GCAC was formed in 1985 and is comprised of Illinois State University, Indiana State University, Southern Illinois University, Western Illinois University, Western Kentucky University, University of Northern Iowa, Youngstown State University, and Missouri State.

The men's teams compete in the Missouri Valley Conference in all other sports. The Missouri Valley Conference sponsors championships in baseball, basketball, cross country, indoor track, golf, tennis, indoor track, outdoor track and soccer. In

addition to Missouri State, other league members are Bradley University, Creighton University, Drake University, Evansville University, Illinois State University, Indiana State University, Southern Illinois University, University of Northern Iowa, and Wichita State University.

**Intercollegiate (Women).** The women's intercollegiate athletic program offers competitive opportunities in basketball, cross country, field hockey, indoor track, golf, soccer, softball, swimming, tennis, outdoor track, and volleyball. Some athletic grants-in-aid are available in each sport.

The women's program competes in the Missouri Valley Conference. The Missouri Valley sponsors women's championships in basketball, cross country, golf, soccer, softball, swimming, tennis, indoor track, outdoor track, and volleyball. The institutions in the Missouri Valley are the same as listed above for the men's program. In the sport of field hockey, Missouri State is a member of the Northern Pacific Field Hockey Conference.

## International Student Services

International Student Services, Carrington Hall 302, (417) 836-6618, provides assistance and support to international students. Services offered include recruitment, admission (undergraduate, graduate, non-degree, and English Language Institute), transfer credit evaluation, orientation programs, special activity programming, and assistance with matters relating to immigration matters.

## KOZK/KOZJ

(See the "Ozarks Public Television" section)

## KSMU Radio Station

KSMU (91.1 FM) is the University's public radio station and the region's National Public Radio (NPR) affiliate. KSMU operates six transmitters serving Springfield, Branson, West Plains, Mountain Grove, Joplin, and Neosho. Offering in-depth news and information programs, classical, jazz, and eclectic music formats, the station provides training opportunities for students interested in broadcasting. For more information, visit the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = KSMU).

## Learning Diagnostic Clinic

The primary mission of the Learning Diagnostic Clinic (LDC) is to validate documentation and prescribe educational accommodations for qualified students with learning disabilities and/or disabilities that create problems similar to those of learning disabled students (e.g., traumatic brain injury, depression). A related goal is to provide an educational support service for those students with the ultimate goal of developing educated persons.

The LDC reviews an individual's diagnostic documentation and then based on that documentation may offer services (free of charge) to the qualified individual such as career and personal counseling, testing accommodations, note-taking assistance, academic advisement, recorded textbooks, study skills training, organizational and planning skills training. More intensive services are available through the Project Success program (a fee is charged). Prospective students who need support services through the clinic need to first register with Disability Services (DS). DS can be contacted by calling (417) 836-4192.

Diagnostic documentation must be provided by a qualified professional. For learning disabilities, the documentation is required to be conducted within three years of the time of admission. Other diagnoses (e.g., depression) may require more recent documentation. Providing the documentation is the responsibility of the student. In the absence of such documentation, and if an evaluation is warranted, the LDC can provide psychoeducational testing for a fee.

For more information, contact the LDC in the Alumni Center, room 502, (417) 836-4787.

## Library Services

The Missouri State library system is comprised of the Duane G. Meyer Library, the Music Library, the Greenwood Laboratory School Library, and the Evans Library on the Mountain Grove Campus. These four libraries have collections of over 2.9 million items including 824,414 accessioned volumes; current subscriptions to over 4,200 periodicals and newspapers; and extensive back files of journals and newspapers, many on microfilm, microcard and microfiche. Total microform holdings amount to over one million items. More than 914,000 state, federal and United Nations documents are held as a result of the Meyer Library being a designated depository library for each of those areas. Meyer Library is the only UN depository library in the state of Missouri. A large collection of audio CD's is fully cataloged and available in the Music Library. A number of special collections are also housed in Meyer Library. The William J. Jones collections of Rimbaud and Butor are internationally recognized; materials by and about the French poet, Jean Arthur Rimbaud, comprise the largest collection of this type in the United States. The Ozarks Labor Union Archives document regional labor history. University Archives are a growing collection and will be further developed with the utilization of a \$130,000 grant. The Curriculum Resource Center features a children's literature collection, a textbook collection, a collection of curriculum guides, and special learning materials.

Innovation and the use of new technologies are evident in the Missouri State Libraries. The statewide MOBIUS system was implemented for the Southwest area. Known as SWAN, or the Southwest Academic Network, the system allows access to regional holdings of all cataloged materials in the member libraries. Direct patron borrowing of state-wide resources with delivery of materials in 48 hours has greatly expanded access to all types of materials. Most of the bibliographic data for this system is created as materials are cataloged using the On-line Computer Library Center, Inc., (OCLC), a database with more than 50 million bibliographic records. Electronic access is provided to reference resources, course reserve materials and licensed commercial citation and full-text databases through the library homepage. Currently over 100 electronic databases are available to the university community through the library homepage. In addition to citations from thousands of journals, newspapers, and books, these databases contain articles from over 11,000 journals and newspapers in full-text. Access is also available from off-campus through an authentication process. Missouri State Libraries also maintain an extensive index of authoritative Web-based reference resources, organized by broad subject categories which include full-text, analytical, indexing, and other resources.

Identification of, and requests for, materials not held in our libraries are enabled electronically. OCLC is also utilized for interlibrary loan and reference, with links to over 30,000 libraries in 65 countries. As a member of the Center for Research Libraries (CRL), the University can borrow from a research collection of over 3.8 million items. Electronic transmissions are commonly used to acquire materials in a timely fashion.

During the fall and spring semesters, Meyer Library is open over 99 hours a week to serve the students. Librarians are available 90 hours a week to assist and teach students.

In the Fall of 2002, the addition to, and renovation of the Duane G. Meyer Library was completed. Space for the library was doubled and includes 12 Group Study Rooms, 19 Research Carrels which are assigned to graduate students and faculty on a semester basis, Classrooms, Coffee Shop and Lounge, Computer Lab, and Media Production facilities.

**Accessibility of Resources.** Meyer Library provided accessibility and services that include an access ramp, electronic door openers, and a TDD phone (417) 836-6794. The amount of hardware and software for use by persons with hearing, visual, or physical disabilities continues to increase and change as the technology evolves.

## Lost and Found

(See the "Plaster Student Union/Information Center" section)

## Mass Media Activities

An integral part of the Department of Media, Journalism & Film, the mass media program provides a wide range of activities in broadcasting, journalism, and film. The department maintains an instructional television studio which provides student programming on Springfield's Cable Channel 24. The department also serves in an advisory capacity for the school newspaper, *The Standard*, and is associated with KSMU-FM (91.1 MHz), the University's National Public Radio affiliate. Mass media majors can gain valuable experience working in each of these areas, as reporters and journalists for the newspaper, as producers of television programming, or as student interns at KSMU, the area's FM source of fine arts and information programming. The Growl, a student run webcast radio station is also housed in the department. Students can gain valuable experience doing play-by-play sports announcing, creating web newscast, or DJ'ing a music program on *The Growl*. The student run Film Society is also affiliated with the department.

The department maintains a strong internship program with local and regional broadcasters, providing an opportunity for majors to acquire professional experience at a variety of radio and television stations, as well as corporate production facilities.

For more information about media activities, contact the Department of Media, Journalism and Film.

## Mid-America Viticulture and Enology Center

The mission of the Mid-America Viticulture and Enology Center is to promote growth of the grape and wine industry through focused research, advisory, and service activities. The

Center coordinates work carried on in viticulture and enology so as to efficiently use available resources in Missouri and surrounding states. The Center is located on the Mountain Grove campus, which has long been recognized for its grape research and advisory work. The Center was established in 1999 and is within the College of Natural and Applied Sciences.

## Midwest Sports Medicine Center

The Midwest Sports Medicine Center (MSMC) is a cooperative effort between Missouri State University and St. John's Regional Health Center and offers a variety of services to the physically active general public and students. A team of certified athletic trainers, orthopedic surgeons, primary care sports medicine specialists, pediatricians, and other allied health care professionals are available to evaluate, diagnose and treat injuries as well as educate patients and the community in such matters as injury prevention, home injury care programs, general conditioning, and nutritional matters. X-ray services are also available. When calling the MSMC, the injured person may choose to see either an orthopedist, primary care sports medicine specialist, or a certified athletic trainer. Patients may follow a home care program, supervised rehabilitation program, or be referred for further tests or surgery if necessary.

The MSMC also provides educational opportunities and clinical experiences for students in the Sports Medicine and Athletic Training major.

The MSMC is located at 2135 S. Fremont, Springfield, MO 65804, phone (417) 888-7990. Phones are answered from 9:00 am to 6:00 pm, Monday through Friday. An appointment is required and a fee is charged for services.

## Missouri Fine Arts Academy

The Missouri Fine Arts Academy is a three-week residential program for about 200 of Missouri's artistically talented students who are ready to begin their junior or senior year in high school. The Academy has three primary purposes: To help artistically gifted students achieve their full potential and motivate them to use their abilities in attaining higher goals; to encourage local schools to establish and/or improve programs for artistically gifted youth by providing leadership in curriculum development and teaching strategies; to provide the state with trained teachers and special materials that can help improve education for artistically gifted students.

The Academy's curriculum is designed to give participants an opportunity to pursue studies that differ from traditional approaches to arts education. Guest lectures, forums, films, and other events during the Academy reinforce and extend the curriculum.

## Missouri Local Government Program

The Missouri Local Government Program is committed to providing training that makes a visible, positive impact on the municipal workforce. Trainings are customized and focus on practical information useful to elected and appointed officials, governing boards, commissions and professional development training for employees. Call 417-836-6423 for information.

## Missouri Public Affairs Academy

The Missouri Public Affairs Academy is a focused residential summer enrichment program for Missouri high school students. The Academy has three main purposes: To encourage students to acquire the skills necessary to participate effectively in their community; to help students learn about American political culture, power distribution in society, political influence, and political participation; to give students hands-on experience and provide informative speakers from all levels of Missouri government and community along with debates on controversial issues.

Each summer the Academy brings together talented and aspiring students from throughout the state who have the opportunity to benefit from an accomplished group of political and community leaders. The Academy combines lectures with hands-on projects, field trips, simulations and contests. The curriculum is focused to provide an informative and fun learning process.

## Multicultural Resource Center

The Multicultural Resource Center, located in Plaster Student Union, room 141, (417) 836-5652, promotes diversity and cultural awareness in the University environment and community. One of its major functions is to sponsor workshops and seminars on selected topics of interest. In addition, other resources such as a video library and a collection of books, training materials, newsletters, and magazines gives students access to diverse information on current issues, trends in the job market, and preparation for graduate or professional studies.

## Multicultural Student Services

Multicultural Student Services, Carrington Hall 302, (417) 836-6618, provides academic, social, and cultural programs throughout the year. The MSS Office provides an on-going focus on the importance of a multicultural educational experience and an appreciation for cultural diversity throughout the university community. The office also gathers and distributes information of interest to minority students and links students to other University activities and services. The staff is equipped to meet the diverse needs of the student population and works to promote a more culturally inclusive campus environment.

## Music

The Department of Music offers a wide range of musical activities for all students including orchestra, string orchestra, wind ensemble, symphonic band, concert band, marching band, chamber singers, concert chorale, collegiate chorale, jazz ensembles, and various small ensembles. In addition, private and classroom instruction is available in all keyboard, orchestra and band instruments. Each semester, Ellis Recital Hall, Wehr Band Hall, and Hammons Hall for the Performing Arts provide the setting for a full schedule of events presented not only by the ensembles listed above, but also by the students and faculty of the Department of Music and by many guest artists. These programs provide the University community with a rich variety of listening opportunities.

## My Information System

The My Information system allows students immediate access to their academic information via the internet. The system is accessed by the use of a Personal Identification Number (PIN) at the University web site [www.missouristate.edu/myinformation](http://www.missouristate.edu/myinformation).

Information available includes: update of current local and permanent address, GPA, hours completed, current and future schedules, grade reports, major and minor of record, degree program status, advising notes, registration date and status, degree audits, transcript, transfer evaluation, encumbrances, accounts receivable information, fee payment, status of parking fines/appeals, and more.

Currently enrolled students may contact the ZipCard Office, Plaster Student Union, room 128, 836-8409, or Records Office Carrington Hall, room 202 for information on obtaining a PIN.

## Ozarks Celebration Festival

The Ozarks Celebration Festival is an entertaining and educational look at the region's culture and heritage. The annual fall event is held on the campus in front of Carrington Hall and consists of traditional craftspeople and commercial artists, three stages of music (which will include traditional, bluegrass, and gospel music), Ozarks storytelling, traditional dance (which will include square, jig, contra and clogging), films, historical characters, exhibits, and much more. Many of the finest artists and craftspeople in the region will be on hand to demonstrate and display their creations, offering a number of items for sale. All events are free and open to the public.

## Ozarks Public Health Institute

The MSU Ozarks Public Health Institute will address public health issues of importance to the Ozarks through collaboration with business, community, education and government organizations by implementing education and training, public service and research programs. This approach includes addressing the near-term needs while recognizing that the greatest impact for the long term will come from development of an informed citizenry that sets a high priority on personal and community health. The Institute will serve as a resource base for local communities through the development and distribution of educational materials to community organizations, public service programs offered in communities and via KSMU - Ozarks public radio station, KOZK Ozarks public television, and distance learning methods.

## Ozarks Public Television

Ozarks Public Television is the University's television broadcasting service and the region's Public Broadcasting Service (PBS) affiliate. OPT operates two transmitters, KOZK-TV, Springfield and KOZJ-TV, Joplin. The stations broadcast a schedule of education-oriented children's programs, the PBS primetime schedule, and a significant schedule of locally produced programs of news, information, and the arts. OPT provides training opportunities for students interested in broadcasting. For more information visit the web site at [www.missouristate.edu](http://www.missouristate.edu) (keywords = ozarks public television).

## Ozarks Studies Institute

The Ozarks Studies Institute seeks to preserve the heritage of the Ozarks, its culture, environment and history by fostering a comprehensive knowledge of Ozarks' peoples, places, characteristics and dynamics. The Institute promotes a sense of place for residents and visitors alike and serves as an educational resource by collecting existing and discovering new knowledge about the Ozarks and by providing access to that knowledge.

A comprehensive view of the Ozarks is enhanced through a multi-disciplinary, university-wide effort. Nearly all academic departments and colleges have some role to play in improving our understanding of the Ozarks, ranging from the natural and built environments, to performance and visual arts, to history, folklore, economics, politics, and religion. The Institute enables the university to focus its programs relating to the Ozarks, serve as a clearinghouse for knowledge of and about the Ozarks, and promote scholarly activities that increase our understanding of the Ozarks. The Institute sponsors a major annual festival, the Ozarks Celebration, as well as speakers, professional conferences and workshops. For further information see the web site (keyword = Ozarks Studies).

## Parking

(See the "Safety and Transportation" section)

## Partners In Education

Partners In Education (PIE) is designed to strengthen the triangular partnership of the student, the family, and the University during the critical freshman year. By completing and signing a *Student Release of Confidential Information* form, freshman students may allow designated persons access to academic information otherwise protected under the Family Educational Rights and Privacy Act (FERPA). Non-student members of Partners In Education will receive mid-semester progress reports and final grade reports on their student members, and may telephone the Academic Assistance Office for other information related to their students' academic progress, as long as the membership is active. Students may withdraw permission to release information at any time.

Freshman students are encouraged to enroll in Partners In Education, and may do so through the Academic Assistance Office in University College Hall 122.

## Personal Identification Number (PIN)

Students, faculty, and staff use a PIN to access a variety of information over a secure web server. Students use the PIN to access the My Information system, Faculty use the PIN to access the Employee My Information system, the Faculty/Advisor Resource Center, and the My Work system. If you have never obtained a PIN you may use the Pick-A-PIN page to select your PIN over the web. If you had a PIN issued previously and have forgotten it you must go to the ZipCard Office in Plaster Student Union, room 128 with photo identification to have a new PIN generated. See also "My Information", "World Wide Web" and "ZipCard" sections.

## Plaster Sports Complex

The Robert W. Plaster Sports Complex (PSC) is a multi-use facility for the purpose of supporting recreational and educational needs of students, faculty and staff members as well as providing facilities for hosting intercollegiate athletic contests and special events. PSC has a grandstand with seating capacity of 16,600, an eight-lane all-weather jogging track, a Field Turf Synthetic Grass playing surface, and skyboxes. The facility also contains 12 handball/racquetball courts, two of these being championship courts, designed for spectator viewing. The 7,200 square foot Health and Fitness Center is housed on the second level and includes a free weight area, a variety of selectorized machines, cardio-vascular machines and an aerobic room with a TV and VCR available. A variety of classes are offered through Campus Recreation during the year. All students, faculty and staff may reserve courts and check-out equipment with proper SMS identification during open recreation hours. Attendants are on duty for assistance with equipment usage. The Athletics Strength and Conditioning Center located on the second level, is used by the various intercollegiate athletic teams on campus. The first level of the Complex, in addition to the racquetball courts, also houses administrative offices and locker room facilities for both men and women.

## Plaster Student Union

The Robert W. Plaster Student Union provides opportunities, facilities, and programs for individual growth, and gives the University family the opportunity for interchange outside the classroom. The Student Union is the hub of campus activity, a meeting and gathering place, and a central service center for the campus. Students can hang-out and relax, enjoy breakfast, lunch or dinner, visit the Games Center, join in programmed student activities, surf the internet, socialize or catch up on studying.

Services and activities provided by the staff of the Student Union include:

**Conference Services.** Located on the third floor, conference coordinators are ready to assist with planning meetings, events, and conferences. The Student Union has fourteen conference and meeting rooms ranging in capacity from eight to eighty. In addition, there is a 100 seat parliamentary room, a 500 seat theater, an 800 seat multipurpose ballroom, and the more formal Union Club. Technology support is available, as is catering with options ranging from "no-frills" to served banquets.

**Information Center.** Located at the main entrance of the Student Union, the Information Center has information on University events, a lost and found department, and attendants available to assist individuals with their questions.

**Campus Recreation.** Located on the first floor, Campus Recreation is the place to sign-up for intramural sports, fitness classes, and recreational workshops.

**Outdoor Adventures.** With various experiential workshops, outdoor trips, and an outdoor rental shop, you can find everything you need for your next adventure. Outdoor Adventures rents various equipment, including canoes, kayaks, sailboats, and camping and backpacking gear.



**Games Center.** Located on the first floor, the Games Center has eight bowling lanes, billiard tables, table tennis, arcade games, movies for rent, and a cyber lounge for surfing the internet.

**Crafts Center.** Various non-credit arts and crafts workshops are taught throughout the year. There are also opportunities for those interested in instructing their own craft workshop.

**Greek Life.** Located on the first floor, this office assists Greek social organizations, including the administration of rush, membership, and coordinating the selection of faculty advisors. Professional staff advise sororities and fraternities, Panhellenic Council, Interfraternity Council, National Pan-Hellenic Council, and the honor society of Order of Omega. Information on rush, sororities, and fraternities is available through the Office of Student Activities.

**Student Activities Office.** This highly active office provides leadership opportunities for involvement with campus-wide events such as Homecoming, New Student Festival, Meet the Ozarks Day, leadership workshops, Parents Weekend, and provides resources for students wanting to be active on campus. The office also coordinates the operation of over 250 registered student organizations on campus.

**SOFAC.** The Student Organization Funding Allocation Council provides funding to registered student organizations for special projects or needs. Proposals are reviewed monthly by an eleven member council, which is responsible for selecting the proposals which will receive funding. For more information stop by or call the SOFAC Office on the fourth floor, 836-7646.

**Restaurants.** Whether you are looking for a quick snack or dinner with friends, there are plenty of choices for food and drink in the Union. **Churchill Memories Café** offers specialty coffees and deserts. **Blimpie's Subs and Salads** features a full menu of classic deli subs, salads, tropical smoothies, and TCBY frozen yogurt. **Domino's Pizza** serves hand tossed, thin crust or deep dish pizza, complimented by buffalo wings or cheesy bread. **Madison Street Grill** serves gourmet hamburgers, chicken sandwiches, and a full breakfast menu. **Wok & Roll** offers authentic Asian meals with beef, chicken, pork and vegetable options.

**Retail Services.** Striving to be a one-stop shopping center, the Union is able to meet most campus needs. **Bear Necessities** is a convenience store with items ranging from magazines, newspapers, photo processing, candy, to milk and bottled water. **BearHouse Technology Center** carries computers, cellular phones, and photo scanning equipment. **Campus Eyewear** is a full service optical shop, which provides eye exams, contact lenses, prescription glasses and sunglasses. **1 Hair Place** is a professional hair styling salon, where a hairstylist can give you everything from a simple cut to a whole new look. A ticket outlet for campus entertainment and sporting events is also available. **Copy This** can fill your black and white or color copy needs, and has a **U.S. Postal Station** right in the store. **Commerce Bank**, a full service bank, is available for your personal banking, including opening accounts and processing loans.

**Additional university offices housed in Plaster Student Union include:** Citizenship and Service Learning (CASL), Dean of Students Office, Disability Services, Multicultural Resource Center, Sodexo Food Services, Student Orientation Advisement and Registration (SOAR), and ZipCard. In addition, twenty-seven student organizations have offices in the Union, including the Student Government Association, Student Activities Council and Greek Councils, along with professional and honorary groups.

## Reading and Learning Program, Collegiate

The Reading lab, located in Hill Hall 208, can help students enhance their study skills. The main focus of help is offered through two courses: College Reading and Efficient Study Techniques (IDS 117) for two credit hours and Enhancing Learning Techniques for College and for Life (IDS 118) for one credit hour. Both courses address enhancing study techniques such as time management, concentration, memory, textbook mastery, listening, lecture note-taking, and objective and essay test taking. In addition to study techniques, IDS 117 helps to build vocabulary skills and to improve reading speed and comprehension through lab activities.

For the campus community not enrolled in IDS 117, the Reading Lab is also open on a limited basis during the spring and fall semesters for one-on-one help with study-related problems and for self-study in vocabulary development and reading improvement. Appointments for lab help are required and may be scheduled by contacting the Collegiate Reading and Learning Program Office at (417) 836-5005. As a further service, the program's web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=study skills) offers a resource list for those seeking information and strategies for effective study skills.

## Records and Registration

The Office of Records and Registration comprises four divisions listed below and is responsible for maintaining accurate academic records and enforcing policies set by the Board of Governors, Faculty Senate, University administration, and the state and federal governments. In addition, this office, in cooperation with the Academic Affairs division of the University, assumes the responsibility for monitoring and enforcing academic policies and regulations. This office maintains student and course data systems used on campus, annually produces this catalog, and maintains information on the web site at [www.missouristate.edu/recreg](http://www.missouristate.edu/recreg).

**Pre-recorded Messages** of important information are available 24 hours per day:

Deadline Dates and Information (417) 836-6895  
 Transcript Request Procedures (417) 836-4323  
 Withdrawal Request Procedures (417) 836-6894

**Hours of Operation** are 8:00 a.m. - 5:00 p.m. Monday through Friday excluding weekends and university holidays.

Please note that these offices are closed most Thursdays from 8:00 a.m. to 9:00 a.m. for staff meetings and periodically may only offer limited services when the staff is attending a seminar, workshop, or other university-wide function.

Email Addresses:

Records@missouristate.edu  
 DegreeCheckOffice@missouristate.edu  
 Registration@missouristate.edu  
 VeteransServices@missouristate.edu

FAX numbers:

Registrar: (417) 836-6448  
 Records: (417) 836-4305  
 Degree Check: (417) 836-6448  
 Registration: (417) 836-8776  
 Transcripts: (417) 836-6334  
 Veterans Services: (417) 836-3250

### Degree Check Office

This office maintains the Computer Assisted Student Advisement (CASA) system used to produce degree audits; processes all degree program admissions, substitutions and waivers, and undergraduate applications for graduation; certifies honors and graduation for undergraduate students; publishes each commencement program; and produces and provides diplomas and certificates for both undergraduate and graduate students. For information, call (417) 836-5520 or visit Carrington Hall 304.

### Records Office

This office maintains all student academic records; processes initial grades and grade changes, pass/not pass and audit requests, name and address changes; enforces the repeat policy and the academic status policy; produces transcripts and student academic summaries; provides degree verifications, enrollment verifications, and a wide variety of reports for the University administration. For information, call (417) 836-5519 or visit Carrington Hall 202.

### Registrars Office

This office is responsible for maintaining the various student and course information systems used on campus and the coordination of these with other campus systems and services; administration and enforcement of policies and procedures; compiling, editing, and producing the catalog; implementing and maintaining most of the options on the web My Information and the Faculty/Advisor Resource Center systems. For information, call (417) 836-5589 or visit Carrington Hall 304.

### Registration Center

This office is responsible for the administration, coordination, and enforcement of all registration and change of schedule services; responsible for assessing required student fees through the registration system and processing appeals to the refund policy; processes all student withdrawals; and compiles, edits, and produces each semester class schedule. For information, call (417) 836-5522 or visit Carrington Hall 320.

### Veterans Services

The largest population of G.I. Bill recipients in the state of Missouri will be found on the campus of Missouri State. The population includes prior active-duty Veterans, members of the Selected Reserves, Army National Guard, Air National Guard, Survivors' & Dependents' of a veteran who is found by the DVA to be 100% totally and permanently disabled from a service-related disability or died—service connected.

Veteran Services is a dedicated office providing individual advising and counseling, assistance with education claim preparation, explanation and interpretation of federal and state veteran education programs available to eligible persons, and personal support.

Certain veterans may be eligible for the Veterans Vocational Rehabilitation and Training Program. This program of services is available for service members and veterans with service-connected disabilities.

Other services provided by Veteran Services include, certifying enrollment, monitoring progress, conferring with the students, and ensuring that students are in compliance with federal and state laws governing educational benefits. For further infor-

mation visit the MSU web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = veterans) or call (417) 836-4615 or visit Carrington Hall, room 304B.

## Recreation and Intramural Sports

A wide variety of activities for all interest and skill levels are offered through **Campus Recreation**.

**Intramural Sports** are available for both the highly skilled athlete and the recreational player. League competitions are organized for men, women, and coed teams in softball, volleyball, basketball, flag football, roller hockey, sand volleyball, ultimate frisbee, and soccer. Over 25 other individual competitions such as golf, tennis, and weight lifting are also a part of the intramural sports program.

**Fitness/Wellness** offers a wide variety of activities promoting a healthy lifestyle. Floor aerobics, water aerobics, tai chi, mat pilates, yoga, ballroom dancing, and CPR are just a few of the many activities offered throughout the year.

**Outdoor Adventures** provides opportunities for students to attend workshops, seminars, and trips covering topics such as backpacking, rock climbing, kayaking, and canoeing.

A wide variety of camping and sports equipment may also be rented at Outdoor Adventures.

The Plaster Student Union Crafts Center offers workshops in various crafts such as knitting, candle-making, scrapbooking, and mosaics.

For more information, contact Campus Recreation, located in Plaster Student Union, room 131, (417) 836-5334.

## Restaurants

(See the "Plaster Student Union" section)

## Retail Services

(See the "Plaster Student Union" section)

## Retention Services

Retention Services, Carrington Hall 302, (417) 836-6618, assists students from recruitment to graduation. Students are connected to campus resources which help them reach their educational goals.

Services such as free tutoring are available on a first-come, first-served basis in addition to referring students to other campus offices to help them with their course work. This office also provides assistance to commuter students by providing off-campus housing information, roommate information and educational programming to help students become better consumers as they look for a place to live.

This office also participates in research that identifies issues students face which may hinder their success. It then provides support through campus programs and services, in response to identified needs.

## Safety and Transportation

**Escort Service.** The Department of Safety and Transportation operates a night-time escort service. This service is designed to supplement the shuttle service by escorting members of the campus community to and from locations within the confines of the campus.

Students should call (417) 836-5509 to obtain escort service. An officer will then be dispatched by radio to that location.

**Vehicle Operation and Parking Regulations.** Any student who operates a motor vehicle on campus is responsible for being informed about the parking regulations. A copy of the Parking Regulations can be obtained at the Parking Administration Office, Transit Operations Center, 700 E. Elm, telephone (417) 836-4825.

**Towing Policy.** Vehicles which have been abandoned, are improperly parked, or have accumulated three or more unpaid parking tickets may be towed. Contact the Department of Safety and Transportation for details.

**Shuttle Service.** The University operates a shuttle service for use by students, faculty, staff and guests. The Shuttle makes numerous stops at locations convenient to residence halls, academic buildings, the library and Hammons Student Center.

The Shuttle is financed through student services fees. No fares are charged during scheduled operating hours.

Current brochures containing a map of the shuttle route and describing the shuttle system are available at the Department of Safety and Transportation, the Plaster Student Union Information Desk, and other locations on campus.

## Senior Citizens Fee Waiver Program

Missouri State has a special fee waiver program designed to assist senior citizens who are interested in continuing their education through regular academic courses offered by the University. To be eligible, participants must be 60 years of age or older, and enroll only for credit courses (up to a maximum of 8 credit hours per semester and 24 credit hours overall), and be fully admitted to the University as a nondegree seeking student. Persons taking advantage of this program will have all required student fees waived. It should be understood, however, that registration can be done only on a "seats available" basis.

Seniors may register through the fee waiver program only at a special registration program scheduled the Friday prior to the first day of classes for the semester between the hours of 8:30 a.m. and 12:00 noon. Eligible students should come during those hours to the College of Continuing Education and the Extended University in Room 422 of Carrington Hall.

For a brochure highlighting this program and additional information, please contact the College of Continuing Education and the Extended University, 417-836-6929.

## Shuttle Services

The University operates a transit system for use by students, faculty, staff and guests. The shuttle buses make numerous stops at locations convenient to residence halls, academic buildings, the library and Hammons Student Center. The transit service is financed through student services fees. No fares are charged. Current brochures containing a map of the transit routes and describing the transit system are available at the Department of Safety and Transportation, Parking Administration Office, Plaster Student Union Information Desk, and other locations on campus.

## Missouri State University Foundation

The Foundation, established in 1981, is a not-for-profit corporation which helps the University obtain the greatest possible educational benefit through private giving. The Foundation's fund-raising efforts provide support for student financial aid, faculty research, library acquisitions, program enhancement and other academic and capital needs of the University. Since its inception, the Foundation has received gifts and gift commitments in excess of \$107 million.

The Foundation offers a variety of annual giving programs that encourages regular and yearly increased annual support. These include the Nationwide Phone Campaign, the Campus Campaign and direct mail and corporate matching gift programs in support of academic programs. Gifts to athletic programs are coordinated through The Bears Fund. Gifts for the Juanita K. Hammons Hall for the Performing Arts are coordinated through The Performance Society.

Those donors who have made a significant and long-lasting financial commitment to academic or capital programs are recognized through participation in The Founders Club. Other donors are recognized with membership in the Carrington, Maroon and White, and Century Clubs.

Planned and deferred giving programs provide donors the opportunity to endow scholarships, grant bequests through their wills and utilize other estate planning vehicles. Significant planned gifts are recognized by membership in The 1905 Society. Gifts made in honor or in memory of a loved one or someone who has been a strong influence provide a lasting and thoughtful tribute to a life and its accomplishments. All gifts must be within the IRS regulations governing charitable contributions. The Foundation reports regularly on its progress through The Honor Roll of Donors.

## Southwest Missouri Area Health Education Center

The Southwest Missouri Area Health Education Center (SWMO AHEC) is a regional office of the Missouri Area Health Education Centers (MAHEC) statewide system. The SWMO AHEC is hosted by Missouri State University and provides services to an 18 county region. The mission of MAHEC is to create an educational environment in Missouri's rural and urban communities in order to improve the distribution of health care professionals to underserved populations and to improve the health of these communities. The mission is accomplished by: creating academic-community partnerships; promoting health care careers to Missouri youth; identifying and supporting potential health professionals; promoting high-quality training of health profession students; providing educational resources to increase the retention of practitioners; partnering with state agencies and other organizations to promote overall improvement in community health status.

## The Standard

The University's official student newspaper, *The Standard*, has provided University students, faculty and staff with vital news coverage for over 90 years. *The Standard* is published twice a

week and is student managed and edited, providing valuable practical experience for future journalists and other students interested in journalism.

## Student Activities Office

(See the "Plaster Student Union" section)

## Student Exhibition Center

Located near campus on historic Walnut Street and John Q. Hammons Parkway this converted Victorian two-story building contains exhibitions of student work that change monthly during the school year. Each year the exhibition schedule also includes a Foundations Show and Senior Design Show. Additional shows may vary from year to year. The hours of the Student Exhibition Center are Tuesday through Sunday, 12:00 to 5:00 pm.

## Student Government Association

Student Government Association (SGA) is the official voice of the students to the administration of Missouri State. Through organizational and student body representation, SGA collects student opinion on matters concerning fees, discipline, and social activities to express them to the administration and other students.

SGA represents all students. Students are welcome at any SGA meeting and becoming a Senator is a wonderful and rewarding experience that all students should consider pursuing. SGA believes that the students' voices need to be heard and continuing participation will foster student input.

## Student Organizations

Student organizations are an integral part of the Missouri State experience, contributing to the social, intellectual, cultural, recreational, and spiritual needs of the campus, offering students the opportunity to enhance their educational experience through various activities.

The Office of Student Activities is committed to supporting the activities of student organizations and encouraging the participation of the entire campus community in these organizations and the programs of this office.

Over 250 student organizations are now registered. Organizations are divided into the following nine categories:

**Greek** - organizations dealing with Greek related life

**Honorary** - scholarly organizations

**Professional** - organizations that strive for professionalism

**Religious** - organizations dealing with religious beliefs

**Service** - organizations that provide a variety of services

**Social** - organizations that interact with many people

**Sports** - athletic organizations ranging in multiple sports

**University** - organizations that serve the university

## TRIO Programs

The Department of Education, Office of Higher Education, Division of Student Services, funds a number of programs under Title IV of the Higher Education Act that are typically referred to as the TRIO Programs.

The primary purpose of the TRIO programs is to prepare low income and first generation persons for successful entry into, retention in, and completion of postsecondary education. In general, these programs identify low-income and first-generation college students and provide them with encouragement, support and assistance.

### TRIO Student Support Services

This office provides a variety of support services for college students that are designed to improve academic performance, increase student motivation, and facilitate transition from undergraduate to graduate education. Services provided include tutorial services, instruction in basic study skills, academic, financial, and personal counseling; assistance in obtaining financial aid; and assistance in admission and enrollment in graduate programs.

For more information, contact the TRIO Student Support Services office in 226 Kemper Hall, (417) 836-6220, or visit the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = TRIO).

### TRIO Upward Bound Program

The purpose of the Upward Bound Program is to assist high school students in developing the skills and motivation necessary to complete their secondary education and to enroll in and complete a program of postsecondary study. The program currently serves 50 students from Central, Hillcrest, and Parkview high schools in Springfield. The following services are offered to eligible students: tutoring and study skills; monthly Saturday workshops; ACT/PSAT workshops; financial aid and scholarship information and applications; college prep classes and information; a six-week, on-campus, summer enrichment program; college campus visits; and visits to area cultural attractions.

For more information, contact the TRIO Upward Bound Program office in 315 Carrington Hall, (417) 836-4324, or visit the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = TRIO Upward Bound).

## Veterans Services

(See the "Records and Registration" section)

## World Wide Web

Missouri State has a web site ([www.missouristate.edu](http://www.missouristate.edu)) which contains information about the campus, academics, events, and other various topics. Students may use their Personal Identification Number (PIN) to access their own personal information such as class schedule, transcripts, GPA, address, degree audits, and other information through the My Information system. Additional information and enhancements are continually added.

All students have access to the web in the computer labs located in Cheek Hall, Glass Hall; Strong Hall; and Meyer Library. Additional labs for targeted student population are available in many residence halls and other academic computer labs on campus. Computers are also available for all students' use throughout Plaster Student Union and on the 2nd and 3rd floor hallways of Carrington. See the Computing section of the catalog for more information.

## Writing Center

The Writing Center is a friendly and comfortable place where students, faculty and staff can come for free help on any writing project. Trained undergraduate and graduate students will assist you with any aspect of your writing: interpreting assignments, discovering ideas, organizing and developing ideas, interpreting audience feedback, and refining your editing skills. Call 836-6398 to make an appointment or drop by Sicheluff Hall 210.

Other services include a computer lab where students can produce their papers, a *Writer's Hotline* (836-6398) for quick answers about writing, and an on-line tutoring extension. For more information visit the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = writing center).

## Wyrick Commission

The Wyrick Commission and Wyrick Fund, set up in 1982, give students a chance to design, select, and execute campus improvement projects that they want to have instituted.

Each semester, \$3 of each student's Student Services Fees are deposited in the Wyrick Fund to pay for the proposals chosen by the student body during spring elections.

The proposals are submitted by students from any department and reviewed by the 13-member Wyrick Commission, made up of eight students and five faculty members.

Prominent past projects include: new weight equipment in Plaster Sports Complex, new furniture for the library and the Student Union, the signs at the corners of campus, the U-shaped

bicycle racks, and lighting and irrigation for the new intramural field on the northeast corner of campus.

## ZipCard

The ZipCard is your official University identification card which you should keep with you at all times. It can also be used as a campus debit card provided that you have made a deposit in your ZipCard account. As a debit card, it can be used almost anywhere you spend money on campus. You can pay your bills at the Bursar's Office, do your laundry, purchase items from vending machines, make copies, make purchases at the food court, and much more. For a complete list of services, visit our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = zipcard). The ZipCard office is located in Plaster Student Union room 128, (417) 836-8409.

You can also use your ZipCard as a campus charge card to charge items, services, or fines to your account. These miscellaneous charges are due when billed and may be paid in person at the Bursars Office in Carrington Hall 102 by presenting your ZipCard. Miscellaneous charges may include Bookstore, Bear Necessities convenience store, parking permits, library fines, and long distance telephone charges. See "Deferred Payment Plan" in the "Costs" section for further information.

## Student Organizations



Missouri State recognizes two types of student organizations:

### Recognized

Recognized student organizations are those organizations registered with the Office of Student Activities and approved by the Student Government Association.

### Sponsored

Sponsored student organizations are recognized student organizations advised by a University employee as part of that employee's job description *and* funded in some way through University funds. Examples include Student Government Association, Student Activities Council, and Residence Hall Association.

For more information on student organizations, go to the web site at: [studentorganizations.missouristate.edu](http://studentorganizations.missouristate.edu)

### A

A Cub Bella  
 Abundant Life Ministries  
 Accounting Club  
 Advertising Club  
 African Students United  
 AGC Construction Club  
 Agronomy Club  
 Aikido  
 Alpha Chi Omega  
 Alpha Delta Pi  
 Alpha Gamma Rho  
 Alpha Gamma Sigma  
 Alpha Kappa Lambda  
 Alpha Kappa Psi  
 Alpha Omega  
 Alpha Omega Theta Christian Fraternity Inc.  
 Alpha Phi Alpha Fraternity, Inc.  
 Alpha Phi Omega  
 Alpha Sigma Alpha  
 Alpha Sigma Lambda  
 American Association of Family and Consumer Science (AAFCS)  
 American Cancer Society Relay for Life  
 American Chemical Society  
 American Civil Liberties Union (ACLU)  
 American College of Healthcare Executives (ACHE)  
 American Society for Photogrammetry & Remote Sensing  
 American Society of Interior Designers  
 American String Teachers Association (ASTA)  
 Amnesty International  
 Anthropology Club  
 Apartment Association  
 Asian American Pacific Islander Organization  
 Association for Computing Machinery

Association for the Education of Young Children  
 Association for Women in Communication  
 Association of Black Collegians  
 Association of Civically Engaged Students (ACES)  
 Association of Clothing, Textiles, & Merchandising  
 Association of Information Technology Professionals (AITP)  
 Association of International Students (AIS)  
 Association of Jehovah's Witnesses  
 Association of Student Physical Therapist

**B**

Ballroom Dance Club  
 Baptist Student Union  
 Beartones  
 Beta Alpha Psi, Business Information Fraternity  
 Beta Beta Beta Biological Honor Society  
 Bisexual Gay & Lesbian Alliance (BIGALA)  
 Blair-Shannon Hall Council  
 Bowling Club  
 Business and Professional Women (BPW)

**C**

Campus Crusade for Christ  
 Campus Ministries Council  
 Catholic Campus Ministries  
 Chess Club  
 Chi Alpha Christian Fellowship  
 Christian Campus House  
 Christian Student Center  
 Circle K  
 Clayworks  
 Club Baseball  
 Club de Espanol  
 College Republicans  
 Collegiate Entrepreneurs' Organization  
 Collegiate Farm Bureau  
 Collegiate Future Farmers of America  
 Collegiate Middle Level Association (CMLA)  
 Collegiate Music Educators National Conference  
 Congressional Award Organization  
 Criminal Justice Society

**D**

Delta Chi Fraternity  
 Delta Epsilon Chi  
 Delta Sigma Pi  
 Delta Sigma Theta Sorority, Inc.  
 Delta Tau Alpha (Agriculture Honor Society)  
 Delta Zeta Sorority  
 Deutsch Klub  
 Diamond Girls

**E**

Economics Club  
 Entertainment Management Association  
 Episcopal Campus Ministry  
 Eta Sigma Delta

**F**

Fellowship of Christian Athletes  
 Fencing Society  
 Financial Management Association  
 First & Calvary Presbyterian Church Campus Ministry  
 Flute Society  
 Freudenberger Hall Council

**G**

GAMMA (Greeks Advocating Mature Mgt of Alcohol)  
 Gamma Alpha Lambda  
 Gamma Iota Sigma  
 Gamma Pi Alpha  
 Gamma Sigma Sigma  
 Geological Society  
 Gerontology Club  
 Golden Key International Honour Society  
 Graduate of Business Professional Honor Society  
 Graduate Student Council  
 Growl, The

**H**

Habitat for Humanity  
 Hammons House Hall Council  
 Handball Team  
 Hispanic-American Leadership Organization (HALO)  
 Honor Society of Physical Education  
 Honors Council  
 Horsemen's Association  
 Horticulture Club  
 Hospitality Leaders of Tomorrow  
 Hutchens House Hall Council

**I**

Ice Hockey Club  
 ICTHUS  
 Impact  
 Improvisationally Impaired  
 Indian Students Association  
 Industrial/Organizational Psychology Club  
 Interfraternity Council  
 International Assoc of Business Communicators (IABC)  
 International Association of Assembly Managers

**J**

Japanese Animation Club  
 Jewelry Students Association

**K**

Kappa Alpha Order  
 Kappa Alpha Psi  
 Kappa Delta Pi  
 Kappa Mu Epsilon  
 Kappa Sigma  
 Kentwood Hall Council  
 Korean Student Association

**L**

Lambda Pi Eta  
 Latter-Day Saints Student Association  
 Le Club Francais  
 Livestock Judging Club  
 Logistics & Transportation Club-DNA  
 Lutheran Student Center

**M**

Malaysian Student Society  
 Marketing Club  
 Martial Arts Club  
 Master of Social Work Student Association  
 Mathematical Association of America (MAA)  
 Media Studies Network  
 Medieval Era Organization  
 Men's Lacrosse Club  
 Midnight @ Missouri State  
 Minority Student Recruitment Team  
 Missouri Association of Blind Students (MABS)  
 Missouri Association of Planning Students (MAPS)  
 Mu Phi Epsilon  
 Muslim Students Association

**N**

National Art Education Association (NAEA)  
 National Association of Future Doctors of Audiology  
 National Pan-Hellenic Council (NPHC)  
 National Residence Hall Honorary  
 National Society of Collegiate Scholars  
 National Student Speech Language Hearing Association (NSSLHA)  
 Natural High Club  
 Nazarene Student Association  
 News Media Club

**O**

Order of Omega  
 Out There  
 Ozarks Amateur Astronomers Club  
 Ozarks Biological Graduate Society

**P**

Panhellenic Association  
 Percussion Society  
 Pershing Rifles  
 Phi Alpha Delta-Pre Law Fraternity  
 Phi Alpha Theta  
 Phi Beta Sigma Fraternity, Inc.  
 Phi Delta Theta  
 Phi Eta Sigma  
 Phi Kappa Phi  
 Phi Mu Alpha Sinfonia  
 Phi Omega Sigma Christian Fraternity, Inc.  
 Phi Sigma Pi  
 Phi Sigma Tau  
 Philosophy Club  
 Physical Education Majors Club  
 Pi Sigma Alpha  
 Pistol Team and Club

Political Science Graduate Students Association  
 Pre-Dental Club  
 Pre-Medical Society  
 Pre-Optometry Club  
 Pre-Veterinary Club  
 Psi Chi  
 Psychology Club

**R**

Racquetball Team  
 Radiography Club  
 Recreation & Leisure Studies Association  
 Religious Studies Club, The  
 Residence Hall Association (RHA)  
 Rodeo Club  
 Roller Hockey Club

**S**

Saxophone Society  
 Scholars Hall Council  
 Sierra Club  
 Sigma Alpha  
 Sigma Alpha Chi  
 Sigma Alpha Iota  
 Sigma Chi  
 Sigma Gamma Rho  
 Sigma Iota Epsilon  
 Sigma Kappa  
 Sigma Phi Epsilon  
 Sigma Pi  
 Sigma Sigma Sigma  
 Sigma Tau Delta  
 Sister Circle  
 Snorkel and SCUBA Diving Club  
 Social Work Club  
 Society for Human Resource Management  
 Society for Technical Communication  
 Society of Academic Integrity Leaders (SAIL)  
 Society of Indonesian Students  
 Society of Manufacturing Engineers  
 Society of Physics Students  
 Southwest Missouri Mountaineering Society  
 Sports Officials Association  
 Stream Team  
 Student Activities Council (SAC)  
 Student Activities Trial Test  
 Student Alumni Association  
 Student Athlete Advisory Committee  
 Student Athletic Trainers Association  
 Student Community Action Team (SCAT)  
 Student Council for Exceptional Children (SCEC)  
 Student Dietetic Association  
 Student Government Association (SGA)  
 Student International Reading Association (SIRA)  
 Student Math Teacher Organization of Southwest Missouri  
 Student Missouri State Teacher Association (SMSTA)  
 Student National Education Association (SNEA)  
 Student Photographic Society  
 Student Society of Cell & Molecular Biologists



Students in Design  
Students in Free Enterprise (SIFE)  
Students United for International Peace  
SW/LAN

**T**

Tae Kwon Do Club  
Tai Chi and Qigong Club  
Thai Student Association  
Theta Alpha Kappa  
Theta Chi Fraternity

**U**

Ultimate Frisbee  
United Council of Resident Assistants (UCRA)  
United Ministries in Higher Education  
Unity in Alternative Religions on Campus (ARC)  
University Ambassadors  
University Theatre and Dance

**V**

Veterans Club

**W**

Water Ski Club  
Wells Hall Council  
Wesley Foundation  
Woods House Hall Council  
World Affairs Council  
Wrestling Club

**X**

Xi Omicron Iota

**Y**

Young Americans for Freedom  
Young Democrats of America

## Student Rights and Responsibilities



Robert W. Plaster Sports Complex

### Student Conduct

When students enroll at the University, they do so voluntarily and in so doing implicitly accept certain obligations of performance and behavior established by the University, as defined in the Code of Student Rights and Responsibilities and other Official University publications. The development of self-discipline is a goal of education and the disciplinary process is intended to be educational in nature. The judicial system is designed to further the educational process; therefore, it is not comparable to, or a substitute for, jurisprudence under a criminal code. The procedures are designed to balance the rights and responsibilities of the student accused of wrong doing with the rights of the accuser, other students, members of the academic community, and the public. Hearings shall be conducted by a judicial body in order to provide a fair opportunity for hearing of the student's position, explanations, and evidence.

Any member of the University community may file charges against any student for misconduct. Generally, jurisdiction and discipline shall be limited to conduct which occurs on University premises or which adversely affects the University Community and/or the pursuit of its objectives. Charges shall be prepared in writing and directed to the Office of Judicial Programs, Plaster Student Union, room 405, which is the office responsible for the administration of the University judicial system. Any charge should be submitted as soon as is reasonably possible after the event takes place, but in any case, no longer than one calendar year from the date the person knew or should have known the facts.

Acts of dishonesty can be perceived to be related to a student's academic performance or a student's conduct. When the matter

is related to a student's academic performance, the policies of the Division of Academic Affairs, listed in the "Academic Integrity" section of this catalog, are in effect. When the matter is related to a student's conduct, the policies of the Code are in effect. The course instructor has original jurisdiction over his/her class and may deny a student who is unduly disruptive the right to attend class. The student is expected to comply with all reasonable directives of the course instructor.

Once the hearing authority has determined that a violation of the Code has taken place, the hearing authority will determine a recommendation for a sanction appropriate to the violation. In determining its recommendation, the hearing authority will hear recommendations from the accused student and the Judicial Advisor, who is a representative from the Office of Judicial Programs. The Judicial Advisor may introduce evidence of past violations by the accused student in order to establish why a recommended sanction is appropriate. Disciplinary sanctions other than dismissal and expulsion shall not be made a part of the student's permanent academic record, but shall become part of the student's confidential disciplinary record, which will be maintained in a specified area of the Dean of Students Office and shall be subject to the restrictions of the Family Educational Right to Privacy Act (FERPA).

The complete Code of Student Rights and Responsibilities is on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=judicial) or from the Office of Judicial Programs, Plaster Student Union, room 405, (417) 836-6937. It is also recommended that each student become familiar with the Current Students and Campus Services web page at [www.missouristate.edu](http://www.missouristate.edu) (*select Current Students*) to learn about other University policies and procedures.

## University Rules for Speakers and Facilities Usage

1. The use of University facilities for speakers is intended to support the academic mission and is therefore viewed as educational programs. The University retains the exclusive right, through authorized persons and organizations, to determine the appropriateness of speakers scheduled for University facilities. If a speaker is not allowed access to University facilities, that speaker will still have access to the Bear Paw, in accordance with the University's Public Forum Policy.
2. The University retains the exclusive right to determine the appropriateness of all arrangements required for a speaker appearing in a University facility.
3. Each University facility (e.g., Juanita K. Hammons Hall for the Performing Arts, Hammons Student Center, Cogger Theater, etc.) will have separate regulations and procedures for the use of the facility which must be followed for any scheduled event.
4. Any speaker appearing in a University facility must be sponsored by a registered student organization, University organization, or University department. The sponsoring organization is responsible for insuring that procedures for event scheduling are followed.
5. Press conferences on University-owned property must be arranged for in advance through the News Services Office.
6. Orderly picketing and demonstrations are permitted according to the Public Forum Policy but, for reasons of safety, only unmounted signs no wider than the human body are permitted within University buildings.
7. Individuals entertaining guests on campus, in any University facility, are responsible for the proper identification and conformance to rules of the University by such guests.
8. All buildings or facilities other than residence halls shall be off limits to students after closing hours with the following exceptions:
  - a. Students possessing an "after hours" permit, signed by his/her instructor and department head, stating the building, room number, student name, and the times for which the student is cleared.
  - b. University student employees who are required to enter the locked buildings in the performance of their duties. The students must be able to validate their employment to Public Safety Officers who encounter them in the closed buildings.
  - c. Students who are accompanied by Department of Public Safety personnel, University staff members, or faculty members.
9. Arrangements for the use of University facilities, including both buildings and grounds, must be made in advance through the Conference Services Office. Meeting rooms and facilities may be reserved by only those student organizations who are properly registered by the University.
10. Registered student organizations conducting University-related activities off-campus must register them no less than one week in advance with the Office of Student Activities.
11. University-funded student travel must be registered in advance with the University office sponsoring the activity. Participating students are subject to the same parameters of the *Code of Student Rights and Responsibilities* that are in effect at the University.
12. The indoor pool at Hammons Student Center is operated during the hours and under the rules published annually by the Director of Hammons Student Center. Students are not permitted inside the pool area when the pool is closed.

## Academic Regulations



Carrington Hall

### Academic Integrity Policies and Procedures

The community of scholars that is Missouri State University is committed to developing educated persons. Educated persons accept the responsibility to practice personal and academic integrity. Each participant of the University community refrains from and discourages behavior that threatens the freedom and respect each member deserves. The policies and procedures described in the Student Academic Integrity policy specifically address student academic integrity, but recognize that student academic integrity is only part of the entirety of academic integrity in a community of scholars, and that all members of the community share the responsibility for fostering academic integrity.

The *Faculty Handbook* states that course policy statements must include a statement of the instructor's policies concerning cheating and plagiarism, including consequences. An instructor's policies on academic integrity issues, while they may reflect the instructor's personal views, should also be consistent with the University policy on student academic integrity. **The instructor must allow a student who has been charged with academic dishonesty to continue attending class until all appeals are resolved. If an academic integrity matter is pending at the end of a semester, the instructor will issue an Incomplete (I) grade to the student until the appeal process is completed.**

**The complete Student Academic Integrity Policies and Procedures document, including information on the Academic Integrity Proceeding, is available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=academic integrity) or from the Office of Academic Affairs.**

#### Definitions

**Academic Integrity Council (AIC):** The 23-member Academic Integrity Council (AIC) consists of ten voting student members and ten voting faculty members, plus the Vice President for Academic Affairs or designee, who is the non-voting Chair of the Council. In

addition, the Dean of Students (or designee) and the SGA Legislative Director for Academic Affairs serve as ex officio members (without voting privileges). The Council is charged with overseeing Academic Integrity Proceedings. The Council may also undertake other activities intended to foster academic integrity.

**Academic Integrity Proceeding:** An Academic Integrity Proceeding is conducted by a five-member panel drawn from the AIC membership. The purpose of a proceeding is to explore and investigate allegations of student academic dishonesty and to reach informed conclusions as to whether or not academic dishonesty is likely to have occurred.

**Academic Dishonesty:** Any one of the following acts constitutes academic dishonesty:

**Cheating:** The term "cheating" refers to using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

**Fabrication or Misconduct in Research:** The term "fabrication" refers to unauthorized falsification or invention of any information (including research data) or any citation in any academic exercise. The term "misconduct in research" refers to any violation of ethical guidelines for attributing credit and authorship in research endeavors, or other violations of ethical research practice.

**Plagiarism:** The term "plagiarism" includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work or sections of a work of another person without full and clear acknowledgment. This includes any material copied directly or paraphrased from the Internet. The unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials, including material taken from or ordered through the Internet and constitutes plagiarism.

**Facilitating academic dishonesty:** Assisting or attempting to assist another to violate any provision of the Student Academic Integrity policy, whether or not that action is associated with any particular course, is considered academic dishonesty.

### Reporting Academic Dishonesty

All members of the University community share the responsibility and authority to challenge and make known acts of apparent academic dishonesty. Any student, faculty member, or staff person who has witnessed an apparent act of student academic dishonesty, or has information that reasonably leads to the conclusion that such an act has occurred or has been attempted, is strongly encouraged to report said act. Acts of apparent academic dishonesty that occur in the classroom may be reported directly to the course instructor, and/or the course instructor's department head, and/or the instructor's college dean. Incidences of apparent academic dishonesty, whether associated with a particular course or not, may also be reported directly to the Academic Integrity Council (AIC) by contacting the Chair of the Council (the Vice President for Academic Affairs or designee) in the Office of Academic Affairs, Carrington Hall 209. The Academic Integrity Council will not accept or act upon anonymous reports but will hold in strict confidence the identity of any person reporting a suspected instance of academic dishonesty, unless that person consents to having his or her identity revealed. If the act of academic dishonesty that is reported to the AIC is alleged to have occurred in a particular course, the AIC Chair will notify the course instructor of the allegation. If the reported allegation is not associated with any particular course, the AIC Chair will convene an Academic Integrity Panel to conduct an Academic Integrity Proceeding to explore the allegation, provided that at least one person making an allegation is willing to be identified and to participate in the proceeding.

### Academic Dishonesty Not Associated with Enrollment in a Course

Any incident of alleged academic dishonesty by a student not enrolled in a particular course but sitting in the course for a student duly enrolled (for example, taking a test for a duly-enrolled student) should be reported directly to the AIC, which will convene a panel to address the alleged incident. Similarly, any incident of alleged academic dishonesty committed by any student outside the context of enrollment in any particular course should be reported directly to the AIC, which will convene a panel to address the alleged incident.

### Revoking a Grade/Degree

If an instructor discovers academic dishonesty after final grades have been assigned and wishes to retroactively impose an "F" or "XF" grade for the course, the instructor must send written notification to the Chair of the Academic Integrity Council, with copy to the instructor's department head and dean, and in the case of a graduate student, with copy to the Dean of the Graduate College. In order for an instructor to be able to impose a sanction, the written notice must be received by the Academic Integrity Council within five (5) calendar years of the last class meeting day of the class in which the alleged academic dishonesty took place. The written notification from the instructor shall include a detailed description of the alleged academic dishonesty and the intended sanction. The student will be allowed full appeal rights as outlined in the *Student Academic Integrity Policies and Procedures*. When the appeal process has been concluded, if the allegation is upheld and if it was brought forward within the five-year time limit, the instructor's recommended sanction ("F" or "XF") will replace the original grade. If the revocation of the course grade affects the student's graduation status because the course was necessary for graduation, a degree that has been

granted will be revoked. A recommendation to the Vice President for Academic Affairs to revoke a degree requires an affirmative vote of at least 14 of the 20 voting members of the Academic Integrity Council. The Vice President for Academic Affairs's decision to revoke a degree requires consultation with the dean of the college which awarded the degree and in the case of a graduate degree, consultation with the Dean of the Graduate College. The Vice President's decision to revoke a degree requires the concurrence of the President of the university. The decision to revoke a degree may be appealed by the student to the Board of Governors, which may, at its discretion, hear the appeal.

### Academic Record (Transcript)

An academic record (transcript) is permanently maintained for each student who enrolls. This record includes a list of courses in which the student was enrolled (except for those dropped during the Change of Schedule period – see "Change of Schedule" section), as well as the credits and grades earned in those courses. Academic and disciplinary suspensions and expulsions are also recorded.

For students with transfer credit (including West Plains Campus courses taken since August 1995), an entry will appear on the transcript indicating the number of credit hours awarded for each institution attended. Individual transfer courses are not listed. Transfer credit is noted on the transcript only for courses completed by students prior to or during their last semester of enrollment.

All students are issued a transcript upon graduation. For information on requesting copies, see the "Transcript Request" section. Course order and chronological order transcripts are available on the PIN protected web My Information system. Students who have attended the West Plains Campus since August 1995 must contact that campus to request a transcript.

### Academic Renewal Policy

Academic renewal is designed to permit students with a grade point average deficiency to remove the effects of low grades from their academic record, under the following conditions:

1. This policy applies only to undergraduate students and must be invoked prior to graduation.
2. A student enrolled at Missouri State after an absence of five years or more from college may elect academic renewal. This renewal will affect only those courses taken prior to the five-year absence and may be elected only once in a lifetime.
3. Once elected, academic renewal applies to all courses, whether passed or failed and regardless of origin, taken prior to the date chosen by the student.
4. Academic renewal does not erase the record. The grades received are removed from the GPA with an appropriate notation on the transcript indicating the renewal election. Academic renewal is a policy of Missouri State and as such may not be recognized by outside institutions or agencies (e.g., Missouri State Department of Elementary and Secondary Education).
5. Credit hours subjected to academic renewal cannot be used to meet any requirements (e.g., graduation, prerequisite, or certification).
6. Once elected, academic renewal is irrevocable. Students must consult an academic advisor prior to election of academic renewal. Final approval for all academic renewal applications will be processed by the Office of Academic Affairs.

## Academic Status

### Good Standing

A student who has a cumulative grade point average of at least 2.00, at Missouri State and on transfer and Missouri State academic work combined, and is not currently suspended, is considered to be in good standing. A student who has not achieved the minimum good standing grade point average will be placed on scholastic probation or suspension.

### Probation

The purpose of scholastic probation is to remind students that the quality of their cumulative academic work is unsatisfactory. A brochure describing scholastic probation and suspension is available in the offices of the College Deans, Admissions, and Records. A student on scholastic probation may be required to reduce the number of credits carried, maintain a lighter out-of-school workload or forego participation in social activities. The director of an extracurricular activity may also bar students on probation from participation in that activity. A student on probation may also be ineligible for financial aid.

The student's academic advisor and staff of various administrative offices are available to give assistance in the planning of courses, time organization, and establishing effective study habits.

All students on academic probation will be required to have advisement prior to enrolling. Such students must have an advisor release posted electronically on the Faculty/Advisor Resource Center or have an advisor signature on the Registration Request Form.

### Suspension

Any student who fails to make a 1.00 or better grade point average in any single semester or session (regardless of the cumulative grade point average) will be suspended, unless, in the opinion of the appropriate college dean, there are circumstances which warrant an exception. The student must make written application for an exception.

If a student who was placed on probation in a previous semester fails to remove that probation within one semester in residence, the student will be suspended, unless in the opinion of the appropriate college dean, there are circumstances which warrant an exception. If satisfactory progress has been shown, the student may be allowed to remain from semester to semester.

### Reinstatement

A student suspended for academic reasons for the first time is eligible to apply for reinstatement after remaining out of school for a minimum of one semester. The summer session does not count as a semester. Reinstatement of suspended students is not an automatic process. Students are responsible for showing that their chances for success are better than they were before their suspension. Applications for reinstatement are available in the Admissions Office. See the "Academic Calendar" for deadline dates.

A student requesting reinstatement may be required to take certain tests and receive other assistance from the Counseling Center as a part of consideration for reinstatement. If the student is reinstated, the grade point deficiency for each semester attended thereafter must be progressively decreased or the student will again be suspended. After a second suspension, a minimum period of one full calendar year must elapse before a student's application for reinstatement may be considered. If the student is reinstated a second time, a progressive decrease in grade point deficiency must be shown or the student will again be suspended.

If a student had been admitted into a degree program at the time of suspension, the program is voided and the student must reapply for admission or request reinstatement of the original degree program.

A student who attends another college or university after being suspended must earn at least a 2.00 GPA on transferable courses to be considered for reinstatement.

### Transfer Student Admitted on Scholastic Probation

Any transfer student who has less than a 2.00 average on the total of previous college work attempted who is admitted is on scholastic probation. (Such admissions must be approved by the Admission Exceptions Committee.) Deficiency points are indicated on the student's transfer evaluation. The student remains on probation until enough "surplus" credit points are earned at Missouri State University to overcome the previous deficiency. A student may remain on probation even though the Missouri State GPA is above 2.00. The Admission Exceptions Committee may impose certain GPA or course requirements on the student at the time of admission. The student should understand any and all conditions of admission as well as the meaning of the deficiencies. The student should also be aware that failure to remove the academic probation status during the first semester (or at least demonstrating satisfactory progress toward doing so) may result in suspension from Missouri State.

## Accelerated Masters Program

Students admitted into an approved Accelerated Masters Degree Program may have a limited number of 500-600 level courses counted toward both the undergraduate and graduate degree. Before enrolling in a course to be counted as both undergraduate and graduate credit (mixed credit), an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, department head of the undergraduate program, and the dean of the Graduate College. All approvals must be completed prior to the end of the Change of Schedule Period for the course(s). A maximum of 12 credit hours may be taken as Mixed Credit, but many programs have lower limits. See "Graduate College" section of catalog for further information.

## Address (Local and Permanent)

Students must report their correct addresses at the time of registration. Students may also update their address(es) via the web (see "My Information System") or by reporting address changes to the Records Office.

The local address is generally used to contact students when classes are in session. The permanent address is used on billings, refunds and other items sent while classes may not be in session. The local and permanent address may be the same in the case of a commuting student.

Change of a permanent address does not affect a student's residency status for fee purposes. If a change of residency is appropriate, the proper forms must be completed in the Office of Admissions, Carrington Hall 204.

## Advanced Placement Program (AP)

Missouri State recognizes the Advanced Placement (AP) Program and awards credit for many of the subjects offered. Refer to the "Credit By Examination" section of the catalog.

## Attendance Policy

Because class attendance and course grade are demonstrably and positively related, the University expects students to attend *all* class sessions of courses in which they are enrolled. Each instructor has the *responsibility* to determine specific attendance policies for each course taught, including the role that attendance plays in calculation of final grades and the extent to which work missed due to non-attendance can be made up. On the *first day of class*, each instructor will make available to each student a written statement of the specific attendance policy for that class. The University encourages instructors not to make attendance a disproportionately weighted component of the final grade. The University expects instructors to be reasonable in accommodating students whose absence from class resulted from: (1) participation in University-sanctioned activities and programs; (2) personal illness; or (3) family and/or other compelling circumstances. Instructors have the right to request documentation verifying the basis of any absences resulting from the above factors. Any student who believes that his or her final grade for a course has been reduced unfairly because of attendance factors has the right to appeal that grade under the process outlined below.

### Appeal Process for Attendance-Related Grade Reductions:

The process of grade appeal based upon attendance factors is intended to render a timely and peer-based judgement and is outlined as follows:

1. The student should first attempt to resolve the grade conflict with the instructor on an informal basis. If satisfactory resolution is not reached, formal appeal should be initiated as outlined in (2) below.
2. The student initiates the formal appeal process as follows:
  - a. The student writes a formal letter to the instructor (or to the appropriate department head if the instructor is no longer on campus) requesting a re-evaluation of his or her grade. The letter should include the following information: student's name and social security number; the course code, number, and section; the year and semester the course was taken; the instructor's name; and a clear statement of the grade change request and reasons which justify the request. This formal letter must be initiated no later than the end of the first semester after the grade in question is received (excluding summer semester).
  - b. The instructor (or the appropriate department head if the instructor is no longer on campus) must respond to the formal appeal within ten (10) school days of the receipt of the formal letter:
    - i. If it is determined that the student's request is justified, the instructor (or department head, as appropriate) will prepare a Grade Change Authorization and submit it to the department head, who will forward it to the Records Office. If the grade change is in a course taken for graduate credit, the department head must also notify the Graduate College.
    - ii. If it is determined by the instructor (or department head, as appropriate) that the student's request is *not* justified, the instructor (or department head) will write a formal response to the student justifying his or her decision.

- c. Should the student desire to continue the appeal process, he or she may request a formal hearing before the Attendance Appeal Board (AAB)<sup>1</sup> as follows:
  - i. The student will submit to the Office of the Vice President for Student Affairs a completed AAB Request for Hearing Form (including a release of information on grades awarded on examinations and assignments, and attendance data, for the specific course in question); the student's formal letter to the instructor (or department head, as appropriate); and the instructor's (or department head's) response.
  - ii. Upon receipt of the specified documentation, the AAB will determine if the grade reduction is attendance related and potentially unreasonable and/or at variance with the instructor's stated attendance policy. If it is so determined, the AAB will convene a hearing *at the earliest possible date* based upon the schedules of the involved parties. The hearing will be conducted in an attempt to determine the facts associated with the appeal and the intent is that a recommendation will be rendered by the end of the semester in which the appeal was filed.
  - iii. The AAB is advisory only. The Board will forward all documentation and its recommendation to the Vice President for Academic Affairs. Based upon those data, the Vice President for Academic Affairs will make a ruling to the extent that: (1) the grade should be changed including the new grade to be awarded; or (2) the grade should not be changed.

<sup>1</sup>The Attendance Appeal Board will consist of five members as follows: The Board Chair will be the Vice President for Student Affairs or his/her designee. The Vice President for Student Affairs will also select one faculty member from among those serving on the Faculty Student Judicial Commission and three students from among those serving as Justices on the Campus Judicial Board.

**Students are not automatically dropped for non-attendance. Failure to properly drop or withdraw will result in F grade(s).**

## Auditing a Course

The auditing student is expected to attend class regularly and should consult with the instructor to determine what else is expected in the course. If an auditing student does not attend class regularly or does not fulfill agreed-upon expectations, the instructor may send a memo directing the Records Office to drop the student from the class. Such drops will be graded with an N grade and will be subject to the normal fee refund policy.

Students may audit courses to the maximum authorized academic load. A person currently not enrolled at the University must be admitted in order to register as an auditor. Courses audited are counted in the same way as courses taken for credit in determining required student fees. Credit is not awarded for auditing a class. Audited classes are excluded when determining enrollment status (full-time, half-time) and eligibility for the semester Deans List. Audited classes are included when determining need for Overload Permission.

To audit a course (or to remove a course from audit) the student must complete a form in the Records Office, Carrington Hall room 202 anytime prior to the No Penalty Drop/Automatic N deadline for that course. Students may not change from a credit basis to an audit basis or vice versa once the No Penalty Drop/Automatic N Grade deadline has ended.

## Certificate (University)

The certificate is mailed to student's approximately three weeks after the end of the semester of completion. An encumbrance will prevent the release of a student's transcript and certificate. The name used is the name provided by the student on the Notification of Completion form. The certificate lists the level (undergraduate or graduate) and the name of the program of study.

Duplicate certificates may be ordered by sending a written request and a check or money order in the amount of \$10 payable to Missouri State to the Degree Check Office, Missouri State, 901 S. National Ave, Springfield, MO 65897. The written request must include the student's name, social security number, date of completion, mailing address, daytime phone number, signature, and exactly how the name is to be printed on the certificate.

## Change of Schedule (Add/Drop)

Students are expected to complete the courses for which they register. Failure to properly drop or withdraw from classes will result in the assignment of F grades for those classes, as well as a possible financial obligation.

Students who wish to withdraw from *all* courses for a given semester should refer to the withdrawal policy in the printed and web versions of the catalog and schedule.

Students who wish to add or drop selected regular semester courses must follow the procedures outlined below, which vary over time. Students who wish to add or drop intersession courses, short courses, workshops, and other courses that do not meet for a full semester or block should contact Continuing Education Registration Services or the Registration Center for information on policies, procedures, and deadlines.

Also refer to the Fee Refund Schedule, the Academic Calendar, and Instructor Drop for additional information regarding drops and withdrawals. Also refer to Auditing a Course, Enrollment Status, and Overload Permission for related information.

**Prior to the beginning of the semester:** Adds, drops, and section changes may be processed in any authorized registration center.\* Students must complete a short form and present photo identification. To add a course which requires permission to enroll, the student must first obtain a Course Permission form from the department office which offers the course. Students are responsible for ensuring compliance with stated prerequisites. The department office may or may not drop students who do not meet prerequisites.

**During the Change of Schedule Period (first five days of fall or spring semesters, first two days of summer session):** Same procedure as above except that such changes may also be completed in the department office of the student's major or in the department office of the course being added or dropped.

### After the Change of Schedule period:

1. **To drop a course:** Same procedure as above except that drops may only be processed by an authorized registration center during this time.
2. **To add a course:** In general, only courses which have not yet begun (e.g., second block courses, short courses, workshops, independent study, etc.) may be added after the Change of Schedule Period has ended. Department approval is required to add a first block or full semester length class beginning on day 6 of the fall or spring semester, and to add a second block class on day 3 or beyond of the second block period. The department may also require instructor approval.
  - a. Go to the department which offers the course to seek approval. If approval is granted the department office will complete an Add/Section Change form and affix the depart-

ment signature and stamp. Course Permission forms are not required during this period.

- b. Take the completed form to an authorized registration center with photo identification for processing.
3. **To change sections:** A section change should be completed during the Change of Schedule Period. Such changes are considered a drop and an add, and are treated as such in determining the refund or credit to be granted.
    - a. Go to the department office of the course and request permission to change sections. The department may require instructor approval. If approved, the department will complete an Add/Section Change form and affix the department signature and stamp. If the change is due to extenuating circumstances the department may, at its discretion, indicate on the form that the drop should be processed with a 100 percent credit on the dropped section and the form **must** be taken to the Registration Center, Carrington Hall 320 to be processed with the correct refund.
    - b. Take the completed form and photo identification to an authorized registration center for processing.

No transaction is considered complete unless received, verified, and processed by the Registration Center or other authorized office. Students will be provided a revised schedule and invoice. It is the student's responsibility to review these for accuracy and to request corrections immediately.

### Grading:

1. Prior to the end of the Change of Schedule Period: Dropped courses will not appear on the transcript.
2. After the Change of Schedule Period: Courses dropped up through the No Penalty Drop/Automatic N Deadline for that course will have a grade of N. This is week 2 through 9 for full semester courses during fall and spring semesters; other course lengths are treated proportionally.
3. After the No Penalty Drop/Automatic N Deadline: Courses dropped up through the Last Day to Drop or Withdrawal deadline for that course will have either an N or F grade assigned by the instructor on the final grade roster. An N indicates that the student was doing passing work at the time of the drop. An F indicates a failing grade for the course, and is calculated into the grade point average. This period is from the 10<sup>th</sup> week through the next to last week of the semester for full semester courses during fall and spring semesters; other course lengths are treated proportionally.
4. No drops or withdrawals are allowed after the Last Day to Drop or Withdrawal deadline for the course.

**Related Information:** Students should use the drop procedure judiciously as numerous N grades on a transcript may be construed by some to indicate an inability of the individual to persist when challenged. Dropping courses will generally result in extending the time required to complete a degree. In addition, dropping below a full-time or half-time enrollment status may jeopardize insurance, financial aid, scholarship, and athletic participation eligibility. Students who are dropping because of a concern regarding their grade in a course are encouraged to consult with the instructor prior to dropping a course. Students who are concerned about the impact of dropping a course on their progress toward graduation are encouraged to consult with their academic advisor prior to dropping.

**\*Authorized Registration Centers:** These offices may process registrations, adds, and drops year round. All withdrawals from the University must be processed by the Registration Center in Carrington Hall 320.

- Honors College Students **must** process changes in the University College, University College Hall room 115.



- University Athletes **must** process changes in the Athletic Achievement Center, Forsythe Athletic Center room 239.
- Declared Business Majors may process changes in the College of Business Administration Advisement Center, Glass Hall room 106A.
- Evening, Graduate, and Extended University students may process changes in Continuing Education Registration Services, Carrington Hall room 422.
- Premajors (students who have not declared a major) may process changes in the Academic Advisement Center, University College Hall room 109.
- All other students may process changes in the Registration Center, Carrington Hall room 320.

## Class Disruption

The course instructor has original jurisdiction over his/her class and may deny a student who is unduly disruptive the right to attend the class. Students are expected to master the course content in compliance with the syllabus of the course instructor. The student is expected to comply with all reasonable directives of the course instructor. The course instructor may have a student administratively withdrawn from a course upon showing of good cause and with the concurrence of the department head. The appeals process in case of such administrative withdrawal shall be as stated in the academic regulations under "Grade Re-evaluation Based on Performance."

## Classification

Undergraduate degree-seeking students are classified according to the number of credit hours earned, as follows: freshmen = 0 - 29; sophomores = 30 - 59; juniors = 60 - 89; seniors = 90+. Other undergraduate classifications include precollege and nondegree seeking. Graduate classifications include graduate masters, graduate specialist, doctoral, and postbaccalaureate (nondegree seeking).

## Commencement

Students who wish to participate in commencement ceremonies must do so in their semester of graduation. Students who cannot do this may apply through the Degree Check Office, Carrington Hall 304, to participate in a subsequent commencement ceremony. The listing of their names in the commencement program will remain in the semester of graduation.

Students who received academic scholarships and students who will be recipients of scholarship honors at graduation are expected to participate in the senior banquet (held prior to commencement) and in the commencement ceremony.

Students who complete a University certificate program will receive a "certificate of completion". These students will not be recognized at the commencement ceremonies.

Commencement information is available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=commencement).

## Credit by Examination

Individual academic departments determine policies on credit by examination for their courses. Included may be credit for Advanced Placement (AP), College Level Education Program (CLEP), International Baccalaureate (IB) or other examinations, including departmental examinations. College credits earned through these programs may count toward degree requirements and allow qualified students to take advanced courses earlier in their college career. Credit by examination courses do not carry a letter grade and do not impact grade point average.

Decisions on credit by examination are based upon the policies stated below. Students must request that original score reports be sent directly to the Office of Admissions to be considered for credit.

Students may not receive transfer credit for credit awarded by other institutions on the basis of examinations or other competency based alternatives unless such credit is approved by the appropriate academic department head. The integrity of an AA or bachelor's degree will not, however, be invalidated for students who received credit by examination.

The credit by examination policy is subject to change. The current policy is available on the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = transferring credit).

## Advanced Placement (AP) Program

Missouri State will grant credit for College Board Advanced Placement Examinations in the following areas. Students must contact The College Board to request an original copy of their score report be sent directly to the Office of Admissions. Contact Advanced Placement Exam, PO Box 6671, Princeton, NJ, 08541-6671, (609) 771-7300.

Subject	Minimum Score Required	Missouri State Course Equivalency	Credit Hours
Art History <sup>1</sup>	4	ART 271, 272	6
Biology <sup>1</sup>	3	BIO 102	4
	4	BIO 121	4
Calculus AB	3	MTH 261	5
Calculus BC	3	MTH 261, 280	10
Chemistry <sup>1</sup>	3	CHM 160	4
	4	CHM 160, 170	7
	5	CHM 160, 170, 175	9
Computer Science A	4	CSC 131	4
Computer Science AB	4	CSC 131, 232	8
Economics:			
Macroeconomics	3	ECO 155	3
Microeconomics	3	ECO 165	3
English Language and Composition	3	ENG 110	3
English Literature and Composition	3	ENG 110	3
French Language	4	FRN electives <sup>2</sup>	3
French Literature	4	FRN electives <sup>2</sup>	3
German Language	4	GRM electives <sup>2</sup>	3
Government and Politics: U.S.	3	PLS 101 <sup>3</sup>	3
History:			
European	3	HST 101, 102	6
United States	4	HST 121, 122	6
Latin: Vergil	4	LTN electives <sup>2</sup>	3
Latin: Catullus-Horace	4	LTN electives <sup>2</sup>	3
Music Theory	4	MUS 111, 112	4
Physics B <sup>1</sup>	4	PHY 123	4
Physics C <sup>1</sup>	4	PHY 203	5
Psychology <sup>1</sup>	4	PSY 121	3
Spanish Language	4	SPN electives <sup>2</sup>	3
Spanish Literature	4	SPN electives <sup>2</sup>	3
Statistics	4	MTH 340	3
Studio Art:	3	ART 100, 101 <sup>4</sup>	3
2D or 3D Portfolio			
Studio Art:	3	ART 115 or	3
Drawing Portfolio		electives <sup>4</sup>	

<sup>1</sup> Credit may be awarded for a score of 3 on these examinations. Students must present their examination booklet to the appropriate academic department head for review.

<sup>2</sup> Exact equivalence to be determined by Modern and Classical Language Department.

<sup>3</sup> Students must take PLS 103, Missouri Government and Politics, to meet the Missouri Constitution Study requirement (Senate Bill #4).

<sup>4</sup> Students must also meet other requirements. Contact the Art and Design Department for details.

### College Level Examination Program (CLEP)

The College Level Examination Program of The College Board provides General Examinations and Subject Examinations. Missouri State awards credit for selected CLEP Subject Examinations, but does not award credit for CLEP General Examinations.

Pre-registration with the Counseling and Testing Center is by appointment only. For further information please contact the Counseling and Testing Center in Carrington Hall, room 311, (417) 836-5116. Students must contact CLEP to request an original copy of their score report be sent directly to the Office of Admissions. Contact College Level Examination Program (CLEP), PO Box 6600, Princeton, NJ, 08541, (609) 771-7865. Missouri State will grant credit for College Level Examination Program (CLEP) in the following areas:

Subject	Minimum Score Required	Missouri State Course Equivalency	Credit Hours
Principles of Macroeconomics	50	ECO 155	3
Principles of Microeconomics	50	ECO 165	3
English Composition with Essay	50	ENG 110	3
Western Civilization I	54	HST 101	3
Western Civilization II	54	HST 102	3
Survey of History of U.S. to 1877	54	HST 121	3
Survey of History of U.S. since 1865	54	HST 122	3
American Government	50	PLS 101 <sup>1</sup>	3
American Literature	50	ENG electives	3

<sup>1</sup> Students must take PLS 103, Missouri Government and Politics, to meet the Missouri Constitution Study requirement (Senate Bill #4).

### Departmental and Proficiency Examinations

Certain examinations may be taken for credit in the areas of Accounting, Geography, Modern and Classical Language, and Music. Credit may be awarded for ACC 201, GRY 275, MUS 100, 111, 112, 113, 114, 137, 138, 211, 212, 213, 214, 216, 237, 238, 337, and 338.

Proficiency examinations are available in some other departments. For example, students may take a proficiency examination for the Computers for Learning (CIS/CSC 101) component of the general education program. Additionally, students who earn a satisfactory score on the English placement examination may be exempt from the Writing I (ENG 110) general education requirement. Students who receive a satisfactory score on proficiency examinations will be exempt from the requirement but will not be awarded credit for the course.

For information on departmental and proficiency exams, refer to the department offering that subject matter section of the catalog.

### International Baccalaureate (IB)

Missouri State will grant credit for International Baccalaureate subject examinations in the following areas. Students must contact International Baccalaureate to request an original copy of their score report be sent directly to the Office of Admissions. Contact International Baccalaureate (IB), 200 Madison Avenue, Suite 2007, New York, NY, 10016, (212) 696-4464. Missouri State recognizes the IB diploma for admission.

Subject	Minimum Score Required	Missouri State Course Equivalency	Credit Hours
Anthropology	4	ANT 100	3
Art and Design	5	ART 100, 101 115 or electives <sup>1</sup>	3
Biology	4	BIO 102	4
	5	BIO 121	4
Business	4	FGB 135	3
Chemistry	4	CHM 160	4
	6	CHM 160, 170	7
	7	CHM 160, 170, 175	9
Computer Science	4	CSC 131, 232	8
Design	4	DES electives	3
Economics	4	ECO 155, 165	6
English	4	ENG 110	3
English	6	ENG 110, Writing II	6
Geography	4	GRY 100	3
History, European	4	HST 101	3
History, American	4	HST 121	3
Language	4	elective credit <sup>3</sup>	
Mathematics	4	MTH 261	5
	6	MTH 261, 280	10
Philosophy	4	PHI 110	3
Psychology	4	PSY 121, 3 hrs PSY electives	6
Physics	4	PHY 123, 124	8

<sup>1</sup> Students must also meet other requirements. Contact the Art and Design Department for details.

<sup>2</sup> Students who receive a 3 may apply for credit by submitting a portfolio. For additional information, contact the Director of Freshman English, English Department.

<sup>3</sup> Elective credits with specific equivalencies depending on placement test and interview. Contact the Modern and Classical Languages Department for details.

### Credit Hours and Semester System

The unit of credit used at Missouri State is the semester hour. The University follows the early semester system in which the academic year is divided into two instructional semesters with each having approximately 15 weeks of instruction plus a final examination period, and an 8 week summer session. Additional instructional periods such as intersession, blocks, sessions, short, and extended class periods are offered. The amount of credit hours awarded for courses is based upon the instructional time and the type (lecture or lab) of course. Lecture courses meet the equivalent of 50 minutes per week for 15 weeks (or 750 minutes total) for one semester hour of credit. Laboratory and studio courses meet for the equivalent of 100 minutes per week for 15 weeks (or 1500 minutes total) for one semester hour of credit. Courses which include both lecture and laboratory type meetings will utilize the appropriate combination of the above guidelines; as will all courses taken for credit, regardless of length.

### Dean's List

A Dean's list is prepared at the end of each semester listing the names of undergraduate degree-seeking students who earned at least 12 hours of graded credit in the fall or spring semester or 6 hours of graded credit during the summer session, with a semester grade point average of 3.50 or better.

NOTE: Courses taken or graded Pass/Not Pass and audited courses will not count toward the total semester hours required for eligibility.

## Declaring or Changing a Major

Majors are initially recorded during the application for admission process. To add a minor or another major or to change major(s) or minor(s) requires the following steps:

**Prior to being admitted to a degree program (in declared status):** Student goes to the University Academic Advisement Center, University College Hall 109, to have the desired changes recorded. Then the student goes to the department office of the major to have an advisor assigned.

**After being admitted to a degree program (in admitted status):** Student goes to the department office of the major desired to determine if admissible and to complete the Application for Admission to a Degree Program form. Once the form has been completed and fully approved, the form is taken to the Degree Check Office, Carrington Hall 304, to be processed. This office will update the major(s), minor(s), and the advisor information.

Students can view their current major/minor/advisor and degree program status on the web My Information-Advisement Folder option.

Graduate students should consult the Graduate Catalog or the Graduate College Office for information regarding a change of program.

## Degree Audits

The Computer Assisted Student Advisement (CASA) degree audits system is designed to assist the student, advisor, and University in tracking student progress toward completion of all applicable degree requirements. This is accomplished by the production of a report commonly referred to as a degree audit. This degree audit report matches completed, in-progress, and registered courses with all requirements of a specified degree program to determine which requirements have or will be met and which requirements are deficient or not yet completed. The degree audit will then list what is needed to complete the requirement. The degree audit is designed to be used as an advisement tool. Final confirmation of degree requirements is subject to department and University approval.

All admitted and currently enrolled undergraduate degree seeking students may view their degree audit through the My Information system on the web site provided they have been assigned a Personal Identification Number (PIN).

## Degree Program

A degree program consists of a major, a minor (required for non-comprehensive majors under the Bachelor of Arts and Bachelor of Science degrees), and the applicable requirements associated with the degree (see the "General Baccalaureate Degree Requirements" section of this catalog). Students completing multiple majors in the same degree are considered to have only one degree.

Students must be admitted to a degree program before completing 60 credit hours or will be encumbered and not allowed to register. Each fall and spring semester, undergraduate students who have completed 60 or more credit hours and have not been admitted into a degree program are advised by letter to seek admission in consultation with their advisor. Without written permission by the dean of the student's college, a student cannot be admitted to a baccalaureate degree program until he/she has

completed these General Education basic required courses: IDS 110/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 135 or higher, and PED 100.

Students who have declared a major will obtain an application form in the departmental office of their first major, and then arrange an appointment with their advisor to plan the remainder of their undergraduate studies. Students who are listed as undecided will first go to the University Academic Advisement Center, University College Hall 109, to declare a major and receive instructions on completing the process.

## Departmental Examinations

(See "Credit by Examination" section)

## Diploma

The diploma is mailed to students approximately three weeks after the end of the semester of graduation. An encumbrance will prevent the release of a student's transcript and diploma. The name used is the name provided by the student on the Intent to Graduate Form.

The diploma lists the degree earned, major(s), and the scholastic honors attained at the end of the semester of graduation. Options within majors and minors are not recorded on the diploma but are on the transcript. Students completing multiple majors in the same degree will only receive one diploma listing all majors.

Duplicate diplomas may be ordered by sending a written request and a check or money order payable to Missouri State University in the amount of \$10 to the Degree Check Office, Missouri State University, 901 S. National, Springfield, MO 65804. The written request must include the graduate's name, social security number, date of graduation, mailing address, daytime phone number, signature, and exactly how the name is to be printed on the diploma.

The following is provided to clarify policies and procedures regarding diplomas and university certificates relative to the name change to Missouri State University. The specific points below reference diplomas, but in all cases the same policies and procedures apply to University certificates as well.

- Students whose semester of graduation is summer 2005 will receive a Southwest Missouri State University diploma upon graduation, including those whose graduation may be delayed until after August 28, 2005 (e.g., due to completion of an incomplete grade or receipt of transfer work).
- All students whose semester of graduation is fall 2005 or a subsequent semester will receive a Missouri State University diploma. (Diplomas bearing the Southwest Missouri State University name will **not** be issued to students whose semester of graduation is subsequent to summer 2005.)
- All reissued, duplicate, and/or replacement diplomas produced through August 27, 2005, will bear the name Southwest Missouri State University.
- All reissued, duplicate, and/or replacement diplomas produced on or after August 28, 2005, will bear the name Missouri State University.
- Reissued, duplicate, and replacement diplomas will be produced in accordance with the established policy for a \$10 fee. This fee, approved by the Board of Governors, has not been changed since 1987.

## Dual Enrollment

**College.** Current students who wish to take courses at other colleges or universities, either while enrolled or between terms, are encouraged to verify transferability of credit with the Office of Admissions prior to enrolling at the other institution. Transfer equivalencies for many Missouri colleges and universities are on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=transfer equivalencies).

**High School.** Highly qualified high school seniors may be admitted under the precollege enrollment program. See the "Admission" section of this catalog for details.

## Encumbrances

An encumbrance may be placed on a student's record for a variety of reasons such as an unpaid bill or fine, failure to return books or equipment, or failure to be admitted to a degree program within the specified time limit. Refer to the web site (keyword = encumbrance) for a complete listing of encumbrances code definitions and office contact information.

All encumbrances will prevent a student from registering for upcoming semesters and most encumbrances will prevent the release of a student's transcript and diploma.

Contact the Records Office for further information regarding encumbrances.

## Enrollment Status

Enrollment status may be reported to external agencies such as the Social Security Administration and Veterans Administration. For official reporting purposes, Missouri State uses the following definitions:

**Full-Time Status.** Undergraduate students carrying 12 or more credit hours and graduate students carrying 9 or more credit hours in the fall or spring semester are considered full-time students. Undergraduate and graduate students carrying 6 or more credit hours during the summer session are considered full-time students. Audited classes are excluded when determining enrollment status.

**Half-Time Status.** Undergraduate students carrying 6-11 credit hours and graduate students carrying 5-8 credit hours during a fall or spring semester are considered half-time students. Undergraduate and graduate students carrying 3-5 credit hours during the summer session are considered half-time students. Audited classes are excluded when determining enrollment status.

**Reduced Course Load Policy.** The University complies with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. These laws mandate that the University provide academic accommodation for students with disabilities.

The purpose of the reduced course load policy is to allow for case-by-case consideration of requests that students with disabilities be considered full-time or half-time when taking a reduced course load due to their disability. Students must petition for this accommodation each academic year. Students obtaining approval under this policy will adhere to the current fee structure of the University, but will be considered full-time or half-time and entitled to all of the services, benefits, rights and privileges of their status. Students must be enrolled in a minimum of 6 credit hours to be approved for full-time status and 3 credit hours to be approved for half-time status.

Reduced course load requests, with supporting documentation, shall be submitted to the Director of Disability Services.

Supporting documentation must include a diagnostic evaluation from an appropriate professional that permits evaluation of the current need for accommodation. The Director shall review potential consequences of reduced course load with the student, including slower progress toward graduation, changes in financial aid, and changes in University billing. The Director shall encourage the student to explore potential external consequences of a reduced course load, including changes in vocational rehabilitation funding and federally regulated financial aid.

The Director shall submit the student's request, with supporting documentation, to the Office of Academic Affairs for disposition. If the request is approved, the Records Office shall ensure that enrollment status is accurately noted on the student's record and accurately reported.

## Final Examination Period

A two-hour final examination period is scheduled for each course during the last week of the fall and spring semester. This final examination period is used either for administration of final examinations or for other appropriate course terminating activities.

If students must reschedule final exams because of extenuating circumstances, they must obtain written approval of the academic dean of their major and then of the instructor of the course in advance of the scheduled exam time. Students who have not yet declared a major must first obtain written approval of the Dean of the University College and then the instructor of the course.

## Grade Appeals and Academic Grievances

### Grade Re-evaluation Based on Performance

A student may request that an assigned grade be changed in accordance with the following procedures. **The change must be requested prior to the end of the first semester of enrollment (excluding summer) following the term in which the grade was assigned.** This process should not be used for students appealing a grade of F or XF assigned due to academic dishonesty. Refer to the Academic Integrity Policies and Procedures section of the catalog and to the Student Academic Integrity Policies and Procedures document on the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = academic integrity).

Student evaluations and assignments of final course grades are the responsibility of the faculty. The faculty member is accountable for any and all grades assigned to students; therefore, each faculty member shall maintain records to support student evaluations and grades.

Students who have reasons which can be substantiated to request grade changes must:

1. write a formal letter to the instructor (or to the appropriate department head if the instructor is no longer on campus) requesting a re-evaluation of their performance in the course; and
2. provide the following information in the letter: name and social security number; course number, title, and section; semester and year taken; name of instructor; and a clear statement of the grade change request and reasons which justify the request.

Faculty members, upon receipt of a student's request for a grade change, will review their records. If it is determined that a student's request is justified, the faculty member will prepare a Grade Change Authorization and submit it to the department head, who will forward it to the Records Office. If the grade change is in a course

taken for graduate credit, the department head must also notify the Graduate College. **A faculty member may not change an F grade to an N grade in those cases in which the student did not follow the proper procedures for dropping the course.**

The student can appeal a negative decision of a faculty member. The steps in the appeal process are as follows:

1. present the appeal first to the faculty member's department head;
2. then to the college dean;
3. next to the Dean of the Graduate College, if the appeal is in a course taken for graduate credit;
4. then to the Vice President for Academic Affairs (VPAA), who may refer the appeal to his/her designee for a hearing and recommendation;
5. finally, to the President of the University.

At any step of the appeals process, any of the above individuals can authorize a grade change, and must notify the involved individuals of their action (i.e., the department head must notify the student and the faculty member of his/her decision; the college dean must notify the department head, faculty member, and student of his/her decision; the Graduate Dean, in the case of a graduate course, must notify the college dean, department head, faculty member, and student; the VPAA or designee is responsible for notifying the college dean, department head, faculty member, and student of his/her decision. If the request for grade change is appealed to the final step, the President will take action deemed appropriate and so inform the VPAA, college dean, department head, faculty member, and student. It is solely the student's responsibility to appeal in the order specified at each step of the process, and the student may halt the appeal at any step.

To appeal an attendance-related grade reduction, the appeal process that is part of the Attendance Policy must be followed. That appeal process can be found in the section describing the Attendance Policy.

### **Requests for Grade Changes Made After an Extended Period**

Appeals for changes in a student's academic record which are not made during the following semester must be submitted to the Office of Academic Affairs.

### **Grade Re-evaluation Based On Exceptions to University Policy**

In those cases in which the grade received by the student is the result of the University policy rather than a faculty member's evaluation of performance in a course (e.g., an F resulting from failure to remove an I grade in the time allowed or failure to officially drop a course), the student's written appeal should be directed to the Office of Academic Affairs. Such appeals will be considered by the Scholastic Standards and Revision of Records Committee, and the Committee will make its recommendation to the Vice President for Academic Affairs. This process should not be used for students appealing a grade of F or XF assigned due to academic dishonesty. Refer to the Academic Integrity Policies and Procedures section of the catalog and to the Student Academic Integrity Policies and Procedures document on the web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = academic integrity).

### **Failure to Satisfy Academic Standards of University, College or Department**

The University, colleges and departments have authority to set standards for admission of students to their programs or may deny

enrollment for failure to satisfy academic standards or course/program prerequisites, even though no violation of disciplinary standards is involved. Except to the extent that cheating or plagiarism is involved, such standards are beyond the primary scope of this document. The University *Undergraduate Catalog* and/or *Graduate Catalog* and relevant advisement centers or deans' offices should be consulted for academic standards and for the process of requesting a waiver(s) or appeal(s) of a decision(s) involving those standards.

### **Financial Aid or Scholarships**

For disputes related to the awarding or renewal of financial aid or scholarships, the student should consult the Financial Aid Office or the particular college or department under which the award is granted to ascertain the appropriate channel of inquiry. Also the student should obtain a copy of the scholarship eligibility criteria. Such disputes can be referred for appellate review only upon the recommendation of the Vice President for Student Affairs or the Vice President for Academic Affairs or their designee. Where the grounds for denial of a scholarship or financial aid involves academic dishonesty, the matter should follow the procedure described for "Academic Dishonesty by Student Enrolled in a Course."

### **Grade Point Average**

Undergraduate and graduate grade point averages are maintained. A student's Missouri State grade point average is based only on courses completed at Missouri State. A combined grade point average, based on work completed at Missouri State and in transfer, is also maintained by the Records Office. This combined grade point average is used in determining a student's academic standing and eligibility for graduation and scholastic honors at graduation. Refer to the sections on "Academic Status" and "Scholastic Honors" as well as the individual degree and program descriptions for more details on grade point average requirements.

Grade point average is calculated by dividing the total grade points earned by the total credit hours attempted. The semester grade point average is calculated by dividing the credit points earned for the semester by the credit hours attempted for the semester. See "Grading and the Credit Point System" and "Repeat Policy" sections for more details on grade point average calculation.

The grade point average of graduate and postbaccalaureate students is based only on graduate level courses (those numbered 500 and above). If a graduate student enrolls in undergraduate courses, grades earned in those courses will be included in the calculation of the undergraduate grade point average.

### **Grade Reports**

Grade reports are provided to students on the web My Information system. A Personal Identification Number (PIN) is required which may be obtained from the ZipCard Office in Plaster Student Union 128, in the Records Office in Carrington Hall 202, or through the My Information System. Grade reports are not mailed unless the student specifically requests one each semester prior to the deadline of the last day of the final exam period. Students may submit requests for an end of the semester final grade report to be printed and mailed to them on the web My Information system Grade Report option or by submitting a written request to the Records Office. Exceptions to this policy are that grade reports will be mailed to the local address for students who have a GPA below 2.00 at midterm. Grade reports are also

mailed to those who have any type of scholastic action or warning on the final grade report. In addition, grade reports will be mailed for those students enrolled in the Partners In Education (PIE) program.

The following grade reports are produced each semester and are available on the web My Information system.

**Intersession Grade Verification** for all students enrolled in intersession courses. This report reflects the grades earned in such courses, but the student's cumulative totals, attempted hours, passed hours, grade point, and GPA are not updated until the end of the semester. Intersession grade reports are not mailed to students; However, students may obtain documentation of intersession grades if needed from the Records Office.

**Mid-Semester Grade Report** for all fall or spring undergraduate first-semester students, those on academic probation, student athletes, and those enrolled in the Partners in Education (PIE) program.

**Final Grade Report** for all students, including those who withdrew after the semester began. This report reflects the final grades from all classes including intersession and has final cumulative totals and GPA.

## Grading and the Credit Point System

Grades are awarded to indicate the quality of a student's work and are assigned as follows (point values per credit hour appear in parentheses):

- A (4) = Excellent work. Performance was clearly outstanding.
- B (3) = Very good work. Performance was clearly above satisfactory.
- C (2) = Satisfactory work. Performance was adequate and clearly above the minimum passing work. Minimum grade accepted toward a graduate degree. Graduate students become ineligible to continue graduate studies if more than 9 hours of "C" or lower are earned in graduate courses.
- D (1) = Passing work. Performance minimally met course requirements. Will not count toward graduate degree.
- F (0) = Failed – no credit. Performance was not at a level worthy of credit.
- N (0) = No Penalty Drop—course dropped without academic penalty.
- P (0) = Pass—student passed the course under the pass/not pass system.
- NP (0) = Not Pass—student did not pass the course under the pass/not pass system.
- I (0) = Incomplete—assigned when due to unusual circumstances a small portion of a course, such as a term paper or final examination, has not been completed. (See "Incomplete Grade.")
- V (0) = Visitor—student enrolled in and attended the course as an auditor.
- Z (0) = Deferred—grade to be given only to students enrolled in 600 or 700 level courses, restricted to graduate theses, graduate problem courses, or graduate seminars which might not be completed within a semester. If a Z grade is not removed within two calendar years, it will become an N.
- XF (0) = Failure due to academic dishonesty. (See "Academic Integrity.")

## Graduation

All students must inform the University of their intent to graduate before or early in the semester of graduation. Candidates for bachelors degrees may obtain an Intent to Graduate card at the Degree Check Office in Carrington Hall 304, any registration site, or at [www.missouristate.edu](http://www.missouristate.edu) (keyword=intent to graduate).

Candidates for masters, specialists, and doctoral degrees may obtain an Application for Graduation card at the Graduate College Office in Carrington Hall 306 or at [www.missouristate.edu](http://www.missouristate.edu) (keyword=graduate college).

Information for graduating students is available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=commencement).

## Incomplete Grade

In each instance where an Incomplete (I) grade is assigned, the instructor of the course shall, at the end of the semester in which the I grade is given, indicate on the Assignment of Incomplete Grade form what the student must do to complete the course and how the completed work would affect the final grade. The original copy must be filed with the appropriate department office, one copy must be given to the student, and one copy must be retained by the instructor.

If a student needs to repeat a course or a significant portion of a course, an N or F should be assigned according to regulations governing the assignments of such grades. An N grade cannot be assigned if the student has not officially dropped the course within the semester deadlines.

An I grade must be removed within one calendar year after it is received, or earlier as specified by the instructor, otherwise the I grade automatically becomes an F grade. An extension of the time limit to remove an I grade will be made only if a written request for such extension is submitted to the Records Office by the instructor. The student should make arrangements with the instructor or the department head for completion of the work. When the work is completed, the instructor will complete a Grade Change Authorization form in the department office and send it to the Records Office immediately. The grade may be changed from an I grade or from an F grade to the appropriate grade earned. The student will be sent a copy of the form with a corrected copy of their academic record indicating the adjusted grade point average. A copy of the form will also be returned to the department office indicating the change has been processed.

Any student (undergraduate or graduate) who re-enrolls within one year of being released from military assignment shall have one year from the date of resumption of coursework at Missouri State to remove any "I" grades pending at the time of mobilization or received as a result of mobilization.

**Graduating Seniors Only:** Graduating seniors must remove I grades before the beginning of the final semester of enrollment unless an extension has been granted. I grades assigned in any semester immediately preceding graduation must be removed by May 1 for spring graduation, July 15 for summer graduation, and December 1 for fall graduation. I grades assigned during the semester of graduation must be removed prior to mid-semester of the following semester. Failure to meet this deadline will result in the official date of graduation being delayed to a later semester.

## Instructor Drop

If a student does not attend by the second class meeting of a semester or summer session, and has not informed the departmental office of the intent to remain in the course, the instructor

may institute proceedings to drop the student from the class. (This is generally done only when the space is needed for another student.) A faculty member may not institute drop proceedings after the second week of class. **A student cannot drop a course merely by not attending classes.** The student who is dropped by the instructor will be notified of such action by the Registration Center.

## International Baccalaureate

Missouri State recognizes the International Baccalaureate (IB) program and awards credit for many of the subjects offered. Refer to the "Credit By Examination" section of the catalog.

## Mixed Credit

(See "Accelerated Masters Program" section)

## Multiple Degrees and Majors, Definition of

**Definition of multiple major:** A student who completes all requirements for two or more majors under the same degree will be awarded one degree and will receive one diploma. All majors will be recorded on the transcript and printed on the diploma.

**Definition of multiple degree:** A student who completes all requirements for two or more different degrees (e.g., Bachelor of Arts and Bachelor of Science) in the same semester will be awarded two degrees or more and will receive two or more diplomas.

**Definition of subsequent undergraduate degree:** A student may return to the University to obtain a subsequent undergraduate degree after awarding of the first degree. See "Subsequent Undergraduate Degree" section of catalog for requirements.

## Outcomes Assessment

The assessment program at Missouri State is designed to assist in the development and maintenance of the highest quality programs and services. The information gathered in this process is used by University administrators, department heads, the faculty and staff to evaluate and improve both academic and non-academic offerings. Because the success of this program requires widespread cooperation from the entire university community, it is the policy of Missouri State that all students are expected to participate in the assessment process. This participation may include, but not be limited to: the assessment and evaluation of basic skills, general education, programs in the majors and minors, continuing education, and surveys of the various components of the students' educational experiences.

The Center for Assessment and Instructional Support implements the University's assessment program and provides faculty with unique opportunities for enhancement of instruction and student learning.

## Overload Permission

Permission must be obtained for hours taken over the maximum allowed as per the student's classification. Courses for which a student is enrolled on an audit basis are counted in hours for an overload.

### Precollege Students:

Maximum: Two courses per fall or spring semesters. Maximum of six hours per summer.

Obtain overload permission from: If enrolled in the high school based (dual credit) Precollege Program, obtain permission from the Dean of College of Continuing Education and the Extended University. If enrolled in

the campus based (dual enrollment), obtain permission from the Dean of University College.

### Undergraduate Nondegree Seeking Students:

Maximum: Eight hours for fall or spring semester, or summer sessions.

Obtain overload permission from: Director of Evening College/Adult Student Services, College of Continuing Education and the Extended University.

### Undergraduate Degree Seeking Students:

Maximum: Eighteen hours for fall or spring semesters. Maximum of 10 hours for summer sessions plus the following: Maximum of five hours in four-week session. Maximum of six hours in five-week session. Maximum of ten hours in eight-week session

Upon the recommendation of their advisors and the approval of their college deans, students who have a 3.00 or higher GPA for a semester in which a minimum of 15 hours is carried may request permission for an overload.

Obtain overload permission from: Dean of college of student's major up to 21 hours. If more than 21 hours, must also be approved by the Office of Academic Affairs.

### Postbaccalaureate Students:

Maximum: Sixteen hours (includes both undergraduate and graduate courses) for fall or spring semesters. Maximum of 10 hours (includes both undergraduate and graduate courses) per summer sessions. In addition, postbaccalaureate students (excluding those seeking teacher certification) may not enroll in more than nine hours of 500-600 level courses including completed, in-progress, and registered without permission from the Dean of the Graduate College.

Obtain overload permission from: Dean of the Graduate College if enrolled in any graduate course (500 level or higher). If enrolled in only undergraduate courses, obtain permission from the Director of Adult Services, College of Continuing Education and the Extended University.

### Graduate Students:

Maximum: Sixteen hours for fall or spring semesters. Maximum of 10 hours per summer sessions.

Obtain overload permission from: Dean of the Graduate College

### Intersession Courses (all students):

Maximum: Intersession courses are not counted in determining an overload for the fall semester, spring semester, or summer sessions. However, the maximum is two hours during the summer and fall intersession. Student who elect to enroll in a three-hour course do not need special permission, but they cannot enroll in any other course offered during the same intersession period. Maximum for the winter (January) intersession is one hour.

Obtain overload permission from: Director of Intersession and Special Credit Programs, College of Continuing Education and the Extended University for overloads involving only one and/or two credit hour intersession classes. Overload permission involving a three credit hour and any other intersession class must be obtained from the Office of Academic Affairs.

## Pass/Not Pass Regulations

The Pass/Not Pass option is intended to provide students an opportunity to pursue specialized or outside interests without penalty or reduction of grade point average. It allows students a greater degree of participation in those courses than the audit system permits.

Students earning grades of A,B,C, or D in courses for which they were enrolled on a Pass/Not Pass basis are given a P; those failing will receive an NP. Pass and Not Pass grades are not used in calculating grade point averages.

To place a course on Pass/Not Pass, students must complete a form in the Records Office, Carrington Hall 202, anytime prior to the Automatic N grade deadline for that course.

**CAUTION:** Prerequisite requirements of other courses may not be met with a course completed on a Pass/Not Pass basis. A student shall have the option of having the earned grade in a Pass/Not Pass course released upon request. The decision to take a course on a Pass/Not Pass basis cannot be reversed.

Students may take courses on a Pass/Not Pass basis under the following conditions:

1. Courses taken under the Pass/Not Pass option cannot be used to satisfy general education, major, minor, professional education, or specific degree requirements.
2. Honors classes cannot be taken on a Pass/Not Pass basis.
3. The Pass/Not Pass option is not available to repeat courses including those in which the student has earned a D or F grade.
4. The Pass/Not Pass option is not available to graduate students for graduate-level courses (500 or above). Departments may elect to offer certain non-didactic graduate courses (e.g., readings, special problems, independent study, clinical internships, research and thesis) on a Pass/Not Pass only basis.
5. Courses which are graded Pass/Not Pass only are exempt from the limitations otherwise imposed upon students by Pass/Not Pass regulations.

## Prerequisites

The student is responsible for having the appropriate prerequisites prior to enrollment in a course. The current prerequisites are indicated with each course in the University Catalog and the semester class schedule. In addition, the Student Schedule option of the web My Information system will note any courses the student is enrolled in and appears to not meet the course prerequisite. If any academic department determines that a student does not have the appropriate prerequisites for a course, registration for the course *may* be cancelled either prior to or after classes begin. Any questions concerning the prerequisites should be answered by consulting the current catalog or by contacting the academic department offering the course.

## Refund Policy

(See "Costs and Fees" section)

## Registration

The University allows currently enrolled, admitted, and readmitted/reinstated students to register well in advance of the beginning of each semester. Details are provided in each semester class schedule. New students are informed of registration opportunities with admission materials. Mail registration is available to evening and graduate students through the Office of Continuing Education.

Students who are in good academic standing and plan to return under the same classification may be able to register without applying for readmission.

All students on academic probation will be required to have advisement prior to enrolling. Such students must have an advisor release posted electronically on the Faculty/Advisor Resource Center or have an advisor signature on the Registration Request Form.

The semester class schedule explains the registration procedure. A schedule will be given to each student during the orientation program. Schedules may also be obtained from the Records and Registration Offices. The semester class schedules are also published on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=class schedule).

Any student indebted to the University is not permitted to register for any succeeding semester or summer term until the indebtedness has been paid.

Students are not permitted to attend classes unless they are officially enrolled in those classes. Students whose names do not appear on a class list should contact the Registration Center.

Students become officially enrolled for classes once one of the following conditions is met:

1. Required Student Fees have been paid in full; or,
2. eligible for the Deferred Payment Plan and paid the \$60.00 required minimum payment; or,
3. been awarded and accepted financial aid.

**Once enrolled, students are required to withdraw from the University if they will not be able to attend. Failure to do so may result in failing grades and further financial obligations. (See "Withdrawal").**

## Repeat Policy

In general, students may only receive credit once for completion of a course unless the course description states otherwise. Students may repeat a course to improve their GPA under certain conditions.

The repeat policy is applicable to transfer credit as well as credit earned at Missouri State. For example, if a student earns a D in a course at Missouri State and repeats an equivalent course at another institution, the D will be removed from the calculation of the Missouri State GPA per the policy described below. The transfer grade, however, will be included only in the transfer and combined grade point averages. Transfer credit is evaluated and recorded only if students enroll at Missouri State subsequent to completion of such credit. See the Transfer Credit Policy section of the catalog for further information.

Students should be aware that material covered in variable content courses may not be offered again, or a particular course may be discontinued. In these cases, the student may not have the opportunity to repeat a course where a D or F grade was received. In these instances, a department head **may** authorize a similar course to be used for the subsequent repeat by submitting Authorization To Repeat Form to the Records Office.

Students should also be aware that even though a course prefix, number, and/or title changes, it is still considered the same course for repeat policy purposes. Number and prefix changes are shown in the catalog and schedules for a minimum of five years. The Office of Records and Registration maintains the complete listing of course prefix and number changes and should be contacted for such questions.

Courses can be repeated as follows.

### Repeat of D or F or NP or XF grade:

1. The first repetition (second time taken) of the course replaces the original D or F grade in all grade point average computations from the time of the repetition. The original grade will continue to be shown on the academic transcript with a



comment of "R" for repeated and later removed from the GPA calculation. A repeat of a NP grade will also have the comment of "R" and will remain on the academic transcript, however the NP grade had no GPA affect to be removed. The repetition of the course will have a comment of "RD" for Repeat of D grade, or "RF" for Repeat of F or XF grade, or "RQ" for Repeat of NP grade; as appropriate. On occasion, the credit hours of a course may change. When such a course is repeated the original credit hours and grade points are removed from the GPA and the current credit hours and grade points will be accumulated into the GPA.

2. If the first repetition results in a D grade, a student may NOT repeat the course again without first obtaining Special Permission to repeat (see below).
3. If the first repetition results in an F grade, the student loses credit if the original grade was a D. The F grade will remain in the GPA calculation even if it is subsequently repeated again. The subsequent repeat does not require special permission.
4. If the first repetition results in a NP grade, there will be no affect to the GPA and no special permission is required for subsequent repeats. Only courses graded Pass/Not Pass only fall into this category as the Pass/Not Pass option is not allowed on a course that is taken to repeat a previous D or F grade (see Pass/Not Pass regulations).

#### Special permission to repeat a C or better grade, or a second repeat of a D grade:

1. With **advance** permission of the head of the department in which the course is to be taken, a student may repeat a course in which a grade of C or better has been received, or a course in which the repetition resulted in a D grade. This repetition will be accumulated into hours attempted and grade points so as to have a GPA affect. It will **not** be accumulated into hours passed. Previously earned grade(s) will remain in the GPA calculation. Such a course will have a comment of "SP" posted to the academic transcript.
2. A memo from the department head approving such a repeat must be received in the Records Office or it will be considered an invalid repeat and will not be counted toward hours passed or GPA.

#### Permission to exceed the repeatable limit of a course:

With advance approval the repetition of a course will be accumulated into hours attempted, hours passed, and grade points and will have a comment of "EL" for Exceeded Repeatable Limit posted to the academic transcript. Undergraduate students must have approval from the department head of the course being repeated and graduate students must have approval of the program advisor and the Graduate College. The approval must be submitted to the Records Office in writing. This option may only be used under the following conditions:

1. Variable content course that allows repeats, but the student has exceeded the repeatable limit.
2. Courses completed over 8 years ago and are disallowed toward program completion requirements.
3. Course content has changed substantially either due to passage of time or due to changes to course content or course number.
4. Course is not repeatable but is a 500 level course that is required to be completed for both an undergraduate and a graduate degree program.

#### Invalid repeat:

Any repetition of a course outside of the parameters listed above will be considered an invalid repeat. A grade may be earned and posted to the academic transcript, however, the credit hours

and the grade points will **not** be accumulated into student totals and will not affect GPA. Such a course will have a comment of "IR" for Invalid Repeat.

## Scholastic Honors

Special distinction is awarded to students who demonstrate high scholarship in completing a baccalaureate degree. Honors are conferred according to the requirements in effect at the time of admission into the University (or at time of readmission if the student was not enrolled for more than one calendar year).

Missouri State credit hours and grade point average include courses taken at the West Plains Campus prior to fall 1995. Courses taken at the West Plains Campus fall 1995 and after are considered to be transfer credit.

#### Requirements to be met for students admitted to the University fall 2004 and beyond:

1. Completion of 60 credit hours at Missouri State, and
2. a Missouri State grade point average of 3.50 or better, and
3. a combined (Missouri State and transfer) grade point average of 3.50 or better.

Honors will then be granted based on the lower grade point average of either Missouri State or combined as indicated below.

GPA	SCHOLASTIC HONOR
3.50 - 3.74	Cum Laude
3.75 - 3.89	Magna Cum Laude
3.90 - 4.00	Summa Cum Laude

#### Requirements to be met for students admitted to the University fall 1992 through summer 2004:

1. Completion of 60 credit hours at Missouri State, and
2. a Missouri State grade point average of 3.40 or better, and
3. a combined (Missouri State and transfer) grade point average of 3.40 or better.

Honors will then be granted based on the lower grade point average of either Missouri State or combined as indicated below.

GPA	SCHOLASTIC HONOR
3.40 - 3.74	Cum Laude
3.75 - 3.89	Magna Cum Laude
3.90 - 4.00	Summa Cum Laude

Students who meet the above criteria at the close of the semester immediately preceding their final semester of college work shall be honored at commencement ceremonies. The final eligibility of students for scholarship honors shall be determined on the basis of their credit hour totals and grade point average(s) at the end of the semester of graduation. Students who qualify for scholarship honors shall have those honors entered on their academic record and printed on their diploma.

Questions concerning eligibility for scholastic honors should be directed to the Degree Check Office, Carrington Hall 304, (417) 836-5520.

Refer to "Dean's List" section for further information regarding scholastic honors.

## Semester Class Schedule

The semester class schedules contain information such as the listing of courses to be offered, fee and refund policies, deadline dates, instructions for registration and change of schedule, and the final exam schedule.

Schedules are available from the Registration Center, Carrington Hall 320, just prior to the start of registration (in mid-March for summer and fall and mid-October for spring). The schedules are also available on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=class schedule).

## Senior Permission for Graduate Credit

Missouri State seniors and visiting degree seeking seniors from another institution who are classified as non-degree seeking while at Missouri State, may be permitted to take 500 and 600 level courses for graduate credit during the last two semesters of a baccalaureate program upon the recommendation of the department head and approval of the Graduate College. To be eligible, students must have a GPA of at least 3.00 on the last 60 hours of undergraduate course work. Eligible students are limited to a maximum of 9 credit hours of graduate level courses and a maximum of 15 credit hours of graduate and undergraduate courses combined during a semester. A maximum of 12 credit hours of graduate credit may be earned by Senior Permission.

Courses completed for graduate credit under Senior Permission cannot be applied toward the undergraduate degree. Graduate credit earned under Senior Permission may be applied toward a graduate degree contingent upon approval of the graduate program department head and the Dean of the Graduate College.

Senior Permission forms are available in the Graduate College, Carrington Hall 306 and must be completed and submitted at the time of registration.

## Transcript Request

Transcripts may be requested online through the web My Information System (PIN required) or by writing to: Missouri State University, Records Office, 901 S. National Ave., Springfield, MO 65897-0094 or faxed to (417) 836-6334. The following information must be included in the written request.

- (a) student's full legal name and any former names
- (b) student's identification number (social security number)
- (c) student's birth date
- (d) last semester of attendance at Missouri State University
- (e) student's current address including day phone number
- (f) address to which transcript is to be mailed
- (g) student's signature to authorize the release of the transcript
- (h) first and last semesters of attendance at the West Plains Campus of Missouri State University (if any)

Students may also request transcripts in person at the Records Office, Carrington Hall, Room 202, by supplying all of the above information plus photo identification.

**Transcripts will not be released if the student, or former student, owes the University more than \$10.**

There is no charge for reasonable and routine transcript requests. A \$17 fee will be charged for transcripts or other documents sent via express or overnight mail within the continental U.S.

Students may also obtain a free Student Academic Summary (SAS) for personal use upon presentation of ZipCard to the Records Office. A chronological order and a course order transcript is also available to students on the web My Information system.

Transcripts that are provided directly to the student will either be stamped "Issued to Student" or placed in a sealed envelope and may or may not be accepted by other institutions and agencies.

## Transfer Credit Policy

### Introduction

Missouri State University welcomes transfer students from other accredited colleges and universities and endorses the "Joint Statement on Transfer and Award of Academic Credit" approved by the American Council on Education, the American Association of Collegiate Registrars and Admissions Officers and the American Association of Community Colleges. Many of the principles of that statement are inherent to this policy.

Please refer to the "Academic Programs and Requirements" section of this catalog for the transfer policy regarding the catalog of graduation.

### Determination of Transferability

Missouri State University awards credit in transfer for undergraduate courses completed at colleges and universities accredited by the following regional accrediting agencies:

- Middle States Association of Colleges and Schools
- Higher Learning Commission (North Central Association of Colleges and Schools)
- New England Association of Schools and Colleges
- Northwest Association of Schools and Colleges
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

In addition, transfer credit is awarded for regular academic courses taken at institutions accredited by the Accrediting Association of Bible Colleges (AABC). Mission, theology, doctrine, creation science, homiletics, and religious education courses are not accepted. A limited number of Bible courses (i.e., Old Testament, New Testament, Life of Christ, and Life of Paul) that are substantially similar to courses offered at Missouri State may be accepted. Education courses transfer only as general electives.

To be accepted, coursework must have been completed at an institution after it received accreditation or during the time it was granted candidacy status for accreditation from one of the above accrediting associations.

Transfer credit is also awarded for courses completed at colleges and universities outside of the United States that are accredited or approved by the Ministry of Education (or other appropriate governmental agency) of the country in which they are located. Credit and placement decisions are based on recommendations of the American Association of Collegiate Registrars and Admissions Officers, National Association of Foreign Student Advisors, and selected other professional organizations and agencies that evaluate foreign educational institutions.

Credit is generally not awarded for courses completed at institutions not accredited or approved as indicated above. Exceptions must be approved on a course-by-course basis by the head of the department through which each similar course is offered and by the dean of the department's college. In the case of courses that may be applicable to general education requirements at Missouri State but that do not have specific equivalents, exceptions must be approved by the Associate Dean of the University College.

Transfer credit is not awarded for remedial courses.

Transfer credit is generally not awarded toward an undergraduate degree at Missouri State for courses taken for graduate credit at other institutions unless approved by the appropriate academic department head as described in the "Appeal of transferability or course equivalencies" section below.

Transfer credit is not awarded for courses in vocational-technical programs or programs not offered at Missouri State (e.g., fire science, dental hygiene, occupational therapy). An exception to this policy exists for students who have an Associate of Science or Associate of Applied Science degree and who wish to pursue a Bachelor of Applied Science (BAS) degree at Missouri State. Refer to the “Academic Programs and Requirements” section of this catalog for requirements for the BAS degree.

Transfer credit is awarded and posted to transcripts only for students who enroll at Missouri State subsequent to completing coursework at other institutions.

### Graduate Transfer Credit

(See “Graduate College” section)

### Determination of Course Equivalencies

Initial determinations of transfer credit equivalencies are made by the Missouri State Office of Admissions through a comparison of course descriptions and/or course titles. If substantial similarity exists between a course taken at another institution and a Missouri State course, transfer credit will be awarded for the Missouri State course. If substantial similarity does not exist, but the course is in a subject matter taught at Missouri State under a specific course prefix, elective credit will be awarded under that prefix (e.g., MTH electives for a mathematics course).

If the content of a course includes subject matter offered in more than one Missouri State department or if the course description does not provide sufficient information to assign the credit to a specific prefix, general elective credit will be awarded. In some such cases, the course may be designated as applicable to a portion of the Missouri State general education requirement. Elective credits awarded for upper-division courses taken at four-year colleges and universities will be designated as upper-division for transfer purposes (i.e., will apply to the upper-division credit hour requirement for graduation at Missouri State).

Transfer equivalencies are based on current policies and generally reflect course numbers from the Missouri State catalog at the time the evaluation is conducted. Missouri State courses and course numbers are subject to change; thus, transfer equivalencies are subject to change as well.

Missouri State maintains a transfer course equivalency web site at [www.missouristate.edu/adm/tranequiv.htm](http://www.missouristate.edu/adm/tranequiv.htm). Course equivalencies for most Missouri and many out-of-state institutions are included.

Current Missouri State students who plan to take courses at other institutions are encouraged to consult with their advisors and to confirm transferability of such courses prior to enrolling.

### Appeal of Transferability or Course Equivalencies

The ultimate authority for transfer of credit rests with the head of the department through which similar courses are offered at Missouri State (except credit for courses taken at non-accredited institutions, which must also be approved by the dean of the department’s college). Students who wish to appeal the evaluation or transferability of a course may do so through the appropriate department head. When making an appeal, students must be prepared to provide supporting documentation (e.g., a course syllabus, course description from the other institution’s catalog, examples of work). Department heads who wish to approve a revision to a student’s transfer credit evaluation must submit a “Change/Preapproval of Transfer Credit Evaluation” form to the Admissions Office.

Students who have taken courses that do not have specific course equivalencies at Missouri State (i.e., do not fall under the authority of a department head) but that are substantially similar to courses in the general education program may appeal to have those courses applied to the general education program. Such appeals should be submitted to the Associate Dean of the University College, who also serves as the Missouri State Articulation Officer. Students should be prepared to provide supporting documentation as indicated above.

### Credit Hour Equivalencies

Credit is converted to semester hour equivalents. In converting quarter hours to semester hours, a conversion factor of two-thirds is used. When conversions result in fractions, credit granted per course is reduced to the nearest whole number. Fractions are accumulated and reduced to the nearest whole number, and general elective credit is awarded for that total.

If a course at another institution is offered for fewer credit hours than an equivalent course at Missouri State (e.g., if a three credit hour course at another institution is substantially similar in content to a four credit hour course at Missouri State), the student will be given transfer credit for the equivalent course at Missouri State but only for the number of credit hours earned at the other institution. In such cases, the student may need to take an additional course to fulfill credit hour requirements.

### Grade Equivalencies

Transfer grade equivalents will be determined and recorded with the student’s transfer credit. Credit will be awarded for courses in which a “D” or higher was earned. Grades of “F” are included in the calculation of the transfer grade point average.

Transfer grades and grade point averages are assigned on the basis of the Missouri State University grading policy. For courses taken at institutions that use a plus/minus grading system, the pluses and minuses are dropped in determining grade equivalencies. For courses taken at institutions that use combined grades (e.g., “AB”), the lower grade will be used. Courses taken at institutions that use a grading system not comparable to the Missouri State grading system will be evaluated with the transfer grade equivalents of Pass or Not Pass. “Withdraw failing” grades are calculated in a student’s transfer grade point average as “F” grades.

Grade equivalencies are assigned as follows.

Missouri State Grade	Transfer Equivalent	Explanation
A	TA	Excellent
B	TB	Very Good
C	TC	Satisfactory
D	TD	Passing
F	TF	Failed
P, EX comment	TE	Credit by exam
P, no comment	TP	Passed
NP	TT	Not passed
No equivalent	TX	No grade
No equivalent	TS	Non-standard grade*

\*This grade equivalency is used when it is necessary to combine two transfer courses into one Missouri State course and the courses had different grades (e.g., two hours of A and two hours of B which equate to a four hour course with 14 grade points). This grade entry is also used when it is necessary to compensate for fractions.

When fractions are accumulated and awarded as general electives, grade points are accumulated in similar fashion. For example, a student who took one four quarter hour course with an "A" and two four quarter hour courses with a "B" would receive general elective credit (to compensate for fractions) for two credit hours and six grade points.

Courses for which transfer credit is awarded that are taken at colleges and universities not accredited by a regional accrediting agency or the AABC will be treated as "Pass/Not Pass" courses for grading purposes.

A student's grade point average at Missouri State is based only on courses completed at this institution. A transfer grade point average is carried as part of the student's total record. The Missouri State and transfer grade point average are combined into an overall grade point average to determine academic standing, eligibility for admission to certain programs, graduation and honors, as described in this catalog.

### Repeating Courses

The repeat policy, as described in this catalog, will be applied in all cases in which students repeat similar courses, regardless of where they are taken. For example, a student who transfers with an "F" or "D" grade in a course taken at another institution may repeat that course at Missouri State and remove the previous grade from the calculation of the transfer grade point average.

A TS grade may be repeated under the provisions of the repeat policy if the grade point average for the combined courses is less than 2.00. If the combined GPA is 2.00 or higher, the student must have permission in advance from the head of the appropriate academic department at Missouri State and the repetition will only affect hours attempted and credit points.

### Transfer of Credit to Professional Programs

A maximum of thirty hours of transfer credit will be awarded to students in the Bachelor of Science in Nursing program who have completed RN training in a school of nursing at the time they are admitted to the program by the Department of Nursing.

Similar policies exist for the transfer of credit for professional training in medical technology, radiography, and respiratory therapy for students in these programs, as described in this catalog.

### Transfer of General Education Requirements

Missouri State adheres to the guidelines set forth in Credit Transfer: Guidelines for Student Transfer and Articulation Among Missouri Colleges and Universities, approved by the Missouri Coordinating Board for Higher Education (CBHE) in June 2000. Under these guidelines, students who transfer from Missouri public colleges and universities and Missouri private institutions that adhere to these guidelines will be considered as having met the Missouri State lower division general education requirements if they:

- Complete an Associate of Arts (AA) degree; or,
- Complete the Missouri 42-hour general education core. In accordance with statewide articulation agreement, the student is exempt from the Missouri State University 42-hour core.
- Complete the designated general education program at the other institution, provided that the institution certifies the student's completion of that program.

Missouri State will also honor an AA degree from any regionally accredited college or university, including private institutions in Missouri and public and private institutions in other states. Students with an AA degree from such an institution will be exempt from the Missouri State lower division general education require-

ments. This is a policy of Missouri State and may not be recognized by other institutions to which a student may subsequently transfer. Students are not exempt from Constitution Study Requirement (Senate Bill No. 4) described in the fourth paragraph below.

Students who have completed or been exempted from lower division general education requirements by any of the above provisions must fulfill the upper division general education requirement.

Students with a two-year degree other than an AA (for example, an Associate of Science or an Associate of Applied Science) are not exempt from Missouri State general education requirements on the basis of their degrees unless approved for an exception by the Associate Dean of the University College. Such students will receive a course-by-course evaluation of their transfer credit that will indicate applicability of their courses to Missouri State general education requirements.

Students who have a bachelor's degree from a college or university accredited by one of the regional accrediting agencies referenced above, and who wish to pursue an additional undergraduate degree will be exempt from both the lower and upper division general education requirements at Missouri State but not the Constitution Study Requirement (Senate Bill No. 4). See following paragraph.

Students who have completed or been exempted from the general education requirements by any of the provisions listed above are not exempt from specific course requirements for their majors, even if those courses may be used to satisfy general education requirements at Missouri State. Such students are also not exempt from the Missouri Senate Bill No. 4, 1947 (Mo. Rev. St. Sec 170.011) requirement, which provides that students must be "given regular courses of instruction in the Constitution of the United States and the State of Missouri, and in American history including the study of American institutions." Students who have been awarded an Associate of Arts or bachelor's degree from a Missouri public college or university will be considered to have met this requirement. Other students who have had a course in American history or American government will meet this requirement with completion of PLS 103 at Missouri State. Students who have not had a course in either American history or American government will meet this requirement by completion of PLS 101.

### Missouri 42-hour General Education Block

Students who are certified by a participating Missouri institution as having completed an approved 42-hour general education block will be considered as having fulfilled the Missouri State 42-hour general education block. To fulfill Missouri State general education requirements, such students will need to complete either HST 121 or HST 122 (unless they took an equivalent course at the other institution) and GEP 397 at Missouri State. Refer to the "General Education" section of this catalog for further information.

### Transfer of Credit from Two-Year Institutions

Students are generally awarded only lower division credit for courses completed at two-year institutions (community and junior colleges). Departments seldom award upper division credit and typically do so only after the student has completed a validation examination or course at Missouri State.

Professional education courses at Missouri community colleges must be approved by the Missouri Department of Elementary and Secondary Education (DESE) to be acceptable in transfer as specific equivalencies for Missouri State professional education courses required for the Bachelor of Science in Education degree. Such

courses that are not approved by DESE may transfer as elective credit. Professional education courses are not accepted in transfer from non-Missouri two-year institutions.

If a direct equivalency is not given by an academic department, but the College of Education decides that substantial similarity exists between a course taken at the community college with the DESE approved education program and a Missouri State University course with respect to MoSTEP competencies, a PEU course code will be assigned to the community college course and used to substitute for the Missouri State University course in a given undergraduate education degree program.

### **Transfer Credit Limit**

No limit exists on the number of credits that may be transferred from other institutions; however, students must meet the minimum residence and upper division requirements in effect at Missouri State to receive a degree, as described in this catalog.

### **Transfer of Dual Credit Courses**

Courses taken for dual credit (courses for which students receive both high school and college credit) are evaluated in the same manner as traditional courses offered by the institution through which they are taken. No limit exists on the number of transfer credit hours that will be awarded for dual credit courses.

### **Credit for Experiential Learning**

Credit is not awarded for experiential learning unless validated through the credit by examination provisions referenced above.

### **Credit for Military Education**

Missouri State grants credit for armed service education and training according to the recommendations of the American Council on Education as stated in "A Guide to the Evaluation of Education Experiences in the Armed Services." Credit is generally not awarded for occupational training. Credit will also be given for most Defense Activity for Non-Traditional Education Support (DANTES) education programs. Veterans should file copies of their DANTES transcripts with the Office of Admissions.

Students having additional courses on the Community College of the Air Force (CCAF), Army/American Council on Education Registry Transcript System (AARTS), or the Sailor/Marine/ACE Registry Transcript (SMART) transcript should request an official copy be sent directly to the Office of Admissions for evaluation. Students who do not have any of the transcripts listed above should file copies of their service records (Form DD-214) with Veteran Services. Military credit courses do not carry a letter grade and do not impact grade point average.

### **Credit for Correspondence Courses**

Credit is granted for correspondence courses taken through accredited colleges and universities according to the same guidelines described above. Students who wish to apply correspondence credit for educational methods courses toward a Bachelor of Science in Education degree must have written permission from the Dean of the College of Education.

### **Authority for Policy and Right of Appeal**

The Academic Council approved this policy in April 2001. The Office of Admissions has the primary responsibility for administration of the policy.

In accordance with CBHE guidelines, students have the right to appeal decisions regarding transfer of credit. Students with questions regarding initial determinations of transferability or course equivalencies are encouraged to contact the Office of

Admissions for clarification or guidance. Initial appeals of transferability or course equivalency decisions may be submitted as outlined under the "Appeal of transferability or course equivalencies" section of this policy. Students who believe they have been treated unfairly through this level of appeal are encouraged to contact the Missouri State Articulation Officer (Associate Dean of the University College). The final level of appeal within the institution is the Vice President for Academic Affairs. Students from Missouri public institutions have the right of further appeal as outlined in Credit Transfer: Guidelines for Student Transfer and Articulation Among Missouri Colleges and Universities. A copy of this policy is available from the Office of Admissions, the Office of Academic Affairs, or the Articulation Officer.

The policy is subject to revision. Current policy information is available from the Office of Admissions and on our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword = transfer credit).

## **Variable Content Courses**

Several courses in this catalog are identified in their descriptions as "Variable Content Courses." Variable content courses include any courses, whether or not they can be repeated for additional credit, whose content may be substantially different from one semester to another. Not included in this category are special problems, special projects, readings, and research conducted on a tutorial basis with individual students. **Unless otherwise stipulated in the course description, a variable content course may be taken only once for credit.**

A student may apply no more than eight hours of variable content courses toward a bachelor's degree beyond the variable content coursework allowed in the major. For this purpose, variable content is defined as any course having in either its course title or its description any of the following terms: variable content, special topics, issues, mini problems, seminars, projects, independent study, or readings.

## **Withdrawal Policies and Procedures**

Students who withdraw completely from the University (drop *all* courses) must submit a written request to withdraw to the Registration Center, Carrington Hall 320 or by FAX to (417) 836-8776.

The date the official withdrawal request form is submitted to the Registration Center (or the postmark date of withdrawal requests submitted by mail) shall be the date used in determining the refund of fees and the assignment of grades. Withdrawals are not allowed after the last day to drop or withdraw deadline. See the appropriate semester class schedule for specific dates.

**Grades.** Assignment of grades for withdrawing students are made on the basis of current grading policies detailed in the "Change of Schedule" section of this catalog. Deadlines are included in the semester class schedule. Withdrawals cannot be noted on academic transcripts until two days after grading of the semester.

**Refunds.** Refunds are credited to a student's account according to the policy indicated in the "Costs" section of this catalog. Refer to the current semester class schedule for deadline dates. Refunds will be issued by the Financial Services Office approximately four to six weeks following the withdrawal. Prior to issuing a refund check, that office will deduct any outstanding financial obligation to the University from the refund amount. Refunds will be mailed to the permanent address of the student on file at the time the refund is issued.

If a student withdraws from the University with outstanding financial obligations, the student's transcript will not be released and the student will not be permitted to enroll for a future semester until the obligation is satisfied. Questions concerning financial obligations should be referred to the Financial Services Office, Carrington Hall 113.

**Financial Aid.** Recipients of financial aid, scholarships, or short-term loans for payment of fees or expenses for the semester of withdrawal must be approved by the Financial Aid Office before they will be allowed to complete the withdrawal process. Such students may also be required to participate in an exit interview.

**Residence Halls.** Students living in University housing must terminate their housing contract and vacate their room or apartment within 24 hours of the date of the withdrawal. For information, contact the Office of Residence Life and Services in Hammons House.

**Veterans.** Recipients of veterans benefits must report withdrawals to the Office of Veterans Services, Carrington Hall 304.

**Parking.** Parking permits must be returned to the Parking Administration Office, 700 E. Elm, by students who wish to receive a refund of the parking permit fee. Full refunds are issued for withdrawals processed through the second week of the semester, 50 percent refunds are issued for withdrawals processed from the third through the ninth weeks of the semester, and no refunds are issued after the ninth week.

**Meal Plans.** Contact the Food Service Office, Hammons Hall 109, regarding their refund policy for meal plans which are independent of a housing contract.

**ZipCard.** Students who have a ZipCard Debit Account must complete a ZipCard Debit Account Withdrawal form which is available in the Registration Center and the ZipCard Office, Plaster Student Union room 128, 836-8409. This form will cancel the account and authorize a refund of the account balance.

**Returning to the University.** Students who wish to return do not need to apply for readmission. Instead, they may register with current students according to the guidelines in the class schedule for that semester.

### Withdrawal Policy for Students Mobilized for Active Military Duty

If a student withdraws due to military mobilization, the following policy should be followed.

#### Withdrawal Procedure

Normal withdrawal procedures should be followed whenever possible. However, if students are unable to complete the necessary paperwork by coming into the Registration Center, Carrington 320, or writing a letter of withdrawal, the University shall accept notification from the student or a family member. The Office of Records and Registration will verify all notifications.

#### Refunds

1. Students will receive 100% of their required student fees (including the \$60 deposit) when they officially withdraw due to required military service any time during the current semester. Should students have financial aid, any refund must be paid back to the aid source(s) first. Students should contact the Financial Aid office for more information. Students drawing VA educational benefits should contact Veteran Services and notify the VA Certifying Official of their withdrawal and orders to report to duty.

2. Graduate students who do not have assistantships and withdraw will be refunded 100% of their incidental fees including the \$60 deposit.
3. For those graduate students who have assistantships and withdraw, the unpaid balance of the stipend will be returned to the assistantship budget.
4. Students shall receive a full refund for textbooks purchased at the MSU Bookstore and parking permits.
5. The housing refund will be prorated based on the actual number of days room and board was used.

### Grading of Officially Processed Drops or Withdrawals

1. Students who withdraw before a semester begins or during the first week of classes shall not receive an "N" or any grade on their transcript.
2. Students withdrawing the second week of classes through the automatic "N" deadline (9<sup>th</sup> week) shall receive an "N" grade for each class in which they are enrolled in, except for completed intersession or first block courses.
3. Students withdrawing or dropping individual classes after the automatic "N" deadline (9<sup>th</sup> week) shall receive an "N".

Should students be mobilized at such a point in the semester that the course instructor believes that they have completed a majority of the material in their class(es), the instructor may assign a passing grade or initiate an "I" grade. Students will receive a 100% refund only for those classes that are officially processed as a drop or a withdrawal.

### Degree Program, Admission to

Any undergraduate student who re-enrolls within one year of being released from military assignment shall be allowed to continue under the same "catalog of graduation." Any undergraduate student who had been admitted to a degree program or any graduate student with an approved program of study prior to mobilization and who re-enrolls within one year of being released from military assignment shall not be subject to any additional degree requirements enacted in the interim.

### Incomplete Grades, Removal of

Any student (undergraduate or graduate) who re-enrolls within one year of being released from military assignment shall have one year from the date of resumption of coursework to remove any "I" grades pending at the time of mobilization or received as a result of mobilization.

### Workshops and Special Courses

College courses taught in a shorter period of time than regular semester courses described in this catalog shall meet the same number of hours for both lecture and laboratories as required if offered on a semester or summer session basis. Laboratory sessions and activity-type courses which are primarily characterized by hands-on, experimental, and skill-building activities shall be in session 30 clock hours for each hour of credit. Workshop courses may vary, depending on the situation. Some workshops fall into the hands-on, activity-type category while others are structured primarily as lecture classes taught in a more intensive, abbreviated format.

## Academic Programs and Requirements

### This section contains:

- General Education Program
- General Baccalaureate Degree Requirements
- Available degrees, majors, minors and Specific Degree Requirements
- Teacher Certification, Teacher Education Program and Secondary Education Requirements
- Specialized Programs of Study

A bachelors degree requires meeting the following requirements:

- General Education Requirements
- Major Requirements
- Minor Requirements (non-comprehensive majors in the bachelor of arts or bachelor of science degrees require completion of a minor; a minor is optional for all other programs)
- Specific Degree Requirements
- General Baccalaureate Degree Requirements

This section of the catalog contains all of the above listed requirements, except for the major and minor requirements which are listed in the applicable academic department section.

Students must also know and abide by the academic regulations listed in this catalog. While all academic regulations are important, the following can have a direct impact on completion of degree requirements and should be carefully reviewed.

- Incomplete Grade
- Instructor Drop
- Pass/Not Pass Regulations
- Repeat Policy
- Transfer Credit Policy

Computerized degree audits are available to assist in tracking progress toward degree completion. The degree audits match completed, in-progress, and registered courses with the requirements of a specified degree program and report which requirements are met and which are not met. When requirements are not met, the degree audit specifies what is needed to meet the require-

ment. These degree audits are produced for all current and admitted degree seeking students and are accessible on the web My Information system. The degree audit is the primary means by which the university determines degree completion; therefore, students should carefully review and follow the degree audit.

Students must be admitted to a degree program before completing 60 credit hours or will be encumbered and not allowed to register. Each fall and spring semester, undergraduate students who have completed 60 or more credit hours and have not been admitted into a degree program are advised by letter to seek admission in consultation with their advisor. Without written permission by the dean of the student's college, a student cannot be admitted to a baccalaureate degree program until he/she has completed these General Education basic required courses: IDS 110/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 135 or higher, and PED 100.

Without written permission by the dean of the student's college, a student cannot be admitted to a baccalaureate degree program until he/she has completed these General Education Basic Required Courses: IDS 110/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 135 or higher, and PED 100.

In addition, some majors also have admissions requirements that must be met. Please review the following Academic Regulations for additional information.

- Declaring or Changing Major
- Degree Audits
- Degree Program

## General Education Program

Associate Dean of University College: John C. Catau, Ph.D.

123 University College Hall, Phone: 836-8346, FAX: 836-6372

### The Aims and Goals of General Education

#### The Aim of General Education

The aim of General Education at Missouri State University is to develop people capable of making thoughtful choices that lead to creative and productive lives and to responsible participation in society.

#### Goals for Learning in General Education

General Education is that portion of the curriculum in which the University directly addresses the knowledge, skills, habits, and dispositions of educated persons. General Education at Missouri State provides for learning that educated persons will use throughout their lives in their many roles and communities. To prepare students for a lifetime of important choices, General Education has at least the following goals for learning:

##### Part One: Intellectual Abilities and Dispositions

Improving our ability to make important choices involves attention to the intellectual skills, habits, and dispositions which help to guide such choices. General Education has as a goal of student learning the development of the following:

- A. Conceptual and Practical Understanding of Modes of Learning, Problem-Solving, and Creative Inquiry
- B. Information-Gathering, Reasoning, and Synthesizing Abilities
  1. Skill in formulating questions and in setting goals for inquiry
  2. Knowing how and when to make generalizations and value judgements
  3. Skill in generating and evaluating observations and evidence
  4. Skill in making deductive inferences
  5. Ability to use relevant quantitative methods
- C. Reflective, Creative, and Critical Dispositions
  1. Striving to be well-informed and open-minded
  2. Looking for multiple possibilities and being able to deal with ambiguity
  3. Striving to achieve one's best with persistence and imagination
  4. Willingness to make choices and to evaluate those choices
  5. Intellectual self-awareness: being conscious of one's own thinking process, including the cultural and social contexts of that thinking
- D. Communication Skills
  1. Writing and speaking with clarity and precision for diverse audiences
  2. Making use of computers and other technological tools
  3. Interpreting and communicating visual information

##### Part Two: Knowledge and Understanding

Developing educated people requires intensive study in many areas of inquiry as well as interdisciplinary explorations. The process involves different modes of scholarly discourse and methods of inquiry that have evolved in various fields of study. General Education provides students with an opportunity to perceive ways of linking the various areas of inquiry; in this way

they can make creative and responsible connections not only among all of their general education courses but also among major, minor, and elective courses as well as with co-curricular educational opportunities in the larger university community. The categories listed below should not be regarded as separate from one another but as interdependent areas of knowledge and understanding.

#### A. Understanding of the Natural World

Study of the natural world provides an understanding of important principles and methodologies for making choices. Such study includes the following:

1. Knowledge of the physical universe, including its origin and the physical laws governing it
2. Knowledge of living systems, including their nature, organization, and evolution
3. Understanding the history and methods of scientific inquiry and alternative explanations of the natural world
4. Understanding the multiple influences on scientific inquiry and the consequences of science and technology
5. Understanding the ways human choices affect the earth and living systems and the responsibilities of individual citizens and communities to preserve global resources

#### B. Understanding of Culture and Society

Informed choices require knowledge of what people have done and imagined, currently as well as historically. Choices are also tempered by knowledge of the social and cultural settings in which they are made or were made in the past. This learning includes the following:

1. Knowledge of the many expressions of culture, including
  - understanding of the unique shared ways of thinking, believing, and acting, developed by a people who live together over a long period of time
  - ability to conceptualize and trace the influences of community, institutions, and other constructions such as class, gender, and race
  - familiarity with the ways in which culture is expressed artistically, through literature, performance, and artifact
  - awareness of and appreciation for the ways in which culture and society influence and are influenced by work and leisure
2. Understanding the sources and expression of diverse values throughout the world, including ethical, religious, aesthetic, political, and economic values as well as social and cultural priorities
3. Ability to trace the impact of technology on societies and cultures for diverse audiences
4. Understanding the ways human choices affect communities, from local to global, and responsibilities of individuals to assume the duties of citizenship
5. Understanding the role of governmental regulation and of legal requirements, political processes, and financial and economic influences on decisions of individuals and society



**C. Self-Understanding**

To make informed choices, one must understand the natural and the social context in which one lives and must heed the ancient injunction to “know thyself.” That self-understanding depends on the following:

1. Understanding the nature of our humanness and how human beings are like and different from the other beings with whom they share the planet
2. Knowledge of individual physical, emotional, intellectual, social and creative development as well as ability to use such knowledge to improve personal well-being
3. Knowledge of individual physical, emotional, intellectual, social, historical, spatial, and cultural matrices into which the individual is born; and the influence of the unique set of experiences which the individual encounters
4. Ability to perceive one’s own being not only from cognitive perspectives but also from those perspectives which come from exposure to and creative vision of the arts—to imagine the possibilities the future holds and to develop responsible goals for interactions with others, modes of personal expression, and roles in improving the world

**General Education Program Components**

Every course in the program will promote a common set of General Education objectives. The major components are Basic Required Courses, Areas of Inquiry, and Public Affairs.

All students are required to have a 2.00 cumulative grade point average (transfer and Missouri State combined) in their General Education courses in order to graduate from Missouri State.

General Education courses may not be taken on a Pass/Not Pass basis.

Without written permission by the dean of the student’s college, a student cannot be admitted to a baccalaureate degree program until he/she has completed these General Education Basic Required Courses: IDS 110/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 130 or higher, and PED 100.

A student must apply for admission to a baccalaureate degree program no later than the semester following completion of 60 semester hours.

Many majors and degrees require specific general education courses. Students should review specific major and/or degree requirements before enrolling in general education courses.

**A. Basic Required Courses (11-20 hours) Hours**

- |  |     |
|--|-----|
| 1. Introduction to University Life: IDS 110 (required of all entering students with less than 24 credit hours earned subsequent to high school graduation) or UHC 110 (required for Honors College students) ..... | 0-1 |
| 2. Computers for Learning: CIS/CSC 101 or CSC 111 * .....  | 0-3 |
| 3. Public Speaking: COM 115 .....  | 3   |
| 4. Writing I: ENG 110 ** .....   | 0-3 |
| 5. Writing II: .....   | 3   |

*Select one of the following courses:*

- AGR 320(3) Writing II: Writing in the Applied Sciences
- ART 370(3) Writing II: Writing for the Visual Arts
- COM 337(3) Writing II: Organizational Symbolism
- ENG 210(3) Writing II: Academic Writing
- ENG 221(3) Writing II: Writing for the Professions
- ENG 310(3) Writing II: Writing for Graduate and Professional Schools
- ENG 321(3) Writing II: Beginning Technical Writing
- GLG 358(3) Writing II: Reporting Geological Information

HST 210(3) Writing II: Historical Inquiry

NUR 472(3) Writing II: Nursing Research and Scholarly Writing

PED 310(3) Writing II: Philosophical and Historical Issues in Physical Education, Recreation, and Sport

THE 210(3) Writing II: Writing for Theatre

6. Mathematics: A MTH course numbered 130 or higher ..... 3-5

7. Health and Well-Being: PED 100\*\*\* ..... 2

\* *Students may take a test to determine if they already possess the computer-related knowledge and skills comprising the Computers for Learning requirement. Those who pass this test will be excused from, but will not receive credit for, the Computers for Learning requirement. See the Department of Computer Information Systems or the Department of Computer Science for information.*

\*\* *An ACT English score of 19 or higher or an SAT English score of 451 or higher will meet the prerequisite for enrolling in ENG 110. Students with an ACT English score of 18 or lower or an SAT English score of 450 or lower must enroll in ENG 100. Students without ACT and SAT test scores can take a placement test that is periodically administered by the English Department.*

\*\*\* *Students who transfer from accredited colleges with at least two hours of credit in health and well-being coursework may have completed the Health and Well-Being component upon approval from the Department Head of Health, Physical Education, and Recreation. Students who successfully complete Basic Training in any of the United States Military branches after December 31, 1997, will be exempt from the PED 100 General Education Requirement. Credit for Military Basic Training must be granted by the Office of Admissions.*

**B. Areas of Inquiry (23-25 hours)**

1. Natural World ..... 8-10

**Select courses from two of the following four areas. At least one of the selected courses must include the equivalent of at least one credit of laboratory work (indicated with \*).**

**Astronomy or Physics**

AST 114(4) Survey of Astronomy

- \* AST 115(4) Basic Astronomy
- \* PHY 100(4) Survey of Physics with Laboratory
- \* PHY 101(4) Physics by Inquiry for Educators
- \* PHY 123(4) Introduction to Physics I
- \* PHY 203(5) Foundations of Physics I

**Biology or Biomedical Sciences**

- \* BIO 100(4) Biological Science for Educators
- \* BIO 102(4) Principles of Biological Science
- \* BIO 121(4) General Biology I
- BMS 100(4) Concepts and Issues in the Life Sciences
- \* BMS 105(4) Concepts and Laboratory in the Life Sciences
- \* BMS 110(4) Concepts in the Biomedical Sciences

**Chemistry**

- \* CHM 105(5) Fundamentals of Chemistry
- CHM 106(4) Fundamentals of Chemistry
- \* CHM 107(4) Chemistry for the Citizen
- CHM 160(4) General Chemistry I

**Geography or Geology**

- \* GLG 110(4) Principles of Geology
- \* GLG 115(4) Life of the Past
- GLG 171(4) Environmental Geology
- \* GRY 135(4) Atmospheric Science
- \* GRY 142(4) Introductory Physical Geography

2. Culture and Society ..... 6

**NOTE: Under the Culture and Society and Self-Understanding Areas of Inquiry, students must select one course from each of the five perspective areas with at least four different course codes (three-letter course prefixes).**

**Humanities Perspective (3 hours)**

*Select one of the following courses:*

- AAS 100(3) Introduction to African American Studies
- ART 271(3) History of Western Art I

ART 272(3) History of Western Art II  
 ART 274(3) Survey of Asian Art  
 ENG 200(3) Introduction to Literature  
 HST 103(3) World History I  
 HST 104(3) World History II  
 IDS 397(3) International Culture and Study Abroad  
 LLT 121(3) Classical Mythology  
 MUS 345(3) Music in Western Culture and Society I  
 MUS 346(3) Music in Western Culture and Society II  
 PHI 115(3) Ethics and Contemporary Issues  
 REL 101(3) The Literature and World of Old Testament  
 REL 102(3) The Literature and World of New Testament  
 REL 131(3) Religion in America

**Social Sciences Perspective (3 hours)**

Select one of the following courses:

AGR 100(3) Technology's Impact on Society  
 ANT 100(3) World Cultures  
 ECO 155(3) Principles of Macroeconomics  
 GRY 100(3) World Regional Geography  
 GRY 108(3) Ecology and Society  
 MED 120(3) Mass Media and Society  
 PLN 100(3) Understanding Cities  
 SOC 150(3) Introduction to Society

**3. Self-Understanding ..... 9**

**NOTE: Under the Culture and Society and Self-Understanding Areas of Inquiry, students must select one course from each of the five perspective areas with at least four different course codes (three-letter course prefixes).**

**Social/Behavioral Perspective (3 hours)**

Select one of the following courses:

ANT 125(3) The Human Story  
 CFD 155(3) Principles of Human Development  
 ENG 296(3) Introduction to Linguistics  
 GST 170(3) Sex, Gender and Self  
 PSY 101(3) Psychology for Personal Growth  
 PSY 121(3) Introductory Psychology

**Humanities Perspective (3 hours)**

Select one of the following courses:

ART 200(3) Art in Context  
 ENG 287(3) Life Stages in Literature  
 ENG 380(3) Introduction to Women's Literature  
 LLT 180(3) Hero and Quest  
 MUS 239(3) Introduction to World Music  
 PHI 105(3) Critical Thinking  
 PHI 110(3) Introduction to Philosophy  
 REL 100(3) Introduction to Religion  
 REL 210(3) Paths of World Religion

**Creativity and Vision Perspective (3 hours)**

Select one of the following courses:

ART 209(3) Introduction to the Visual Arts  
 DAN 180(3) Introduction to the Dance  
 ENG 203(3) Creative Writing: Poetry  
 ENG 205(3) Creative Writing: Nonfiction  
 ENG 215(3) Creative Writing: Short Story  
 MUS 241(3) The Language of Music  
 THE 101(3) Introduction to Theatre and Drama Arts  
 THE 109(3) Performance Studies

**C. Public Affairs (9 hours)**

**American Studies (6 hours)**

- HST 121(3) Survey of the History of the United States to 1877 **or** HST 122(3) Survey of the History of the United States since 1877
- PLS 101(3) American Democracy and Citizenship  
 NOTE: Transfer students who have had a course in American government (PLS 101) that did not include a study of the Missouri constitution must complete PLS 103.

**The Capstone Course (3 hours)**

GEP 397(3) Public Affairs Issues for the 21st Century NOTE: Students must complete at least 60 hours, including all the Basic Required Courses (except Writing II) before taking the Capstone Course. See the "University College/General Education Program" section of this catalog for a current list of approved topics.

**Total ..... 43-54**

**NOTE: Most students will complete the General Education program with 49 credit hours.**

**42-Hour General Education Transfer Block**

In accordance with the transfer policy of the Missouri Coordinating Board of Higher Education, Missouri State has identified the following 42-hour block of general education classes. Upon completion of this block, a notation will be entered on the student's transcript. If the student then transfers to another participating school in the state, the receiving institution should accept the Missouri State 42-hour block as equivalent to their own 42-hour general education block. In a similar manner, if a student transfers to Missouri State with certification of a completed 42-hour general education block from another participating institution, the student will not be required to take any of the following classes at Missouri State unless they are needed to fulfill a requirement of the student's major, minor or degree. See the General Education section of this catalog for specific course options and/or requirements.

**Basic Required Courses:**

Computers for Learning: CIS/CSC 101 or CSC 111 (2-3 hours)  
 Public Speaking: COM 115 (3 hours)  
 Writing I: ENG 110 (3 hours)  
 Writing II (3 hours)  
 Mathematics: a MTH course numbered 130 or higher (3-5 hours)  
 Health and Well-Being: PED 100 (2 hours)

**Areas of Inquiry:**

Natural World (8-10 hours)  
 Culture and Society - Humanities Perspective (3 hours)  
 Culture and Society - Social Sciences Perspective (3 hours)  
 Self-Understanding - Social/Behavioral Perspective (3 hours)  
 Self-Understanding - Humanities Perspective (3 hours)  
 Self-Understanding - Creativity and Vision Perspective (3 hours)

**American Studies:**

American Democracy and Citizenship (3 hours)

Students will be required to complete the remaining general education requirements of HST 121 or HST 122, and GEP 397 (or transfer equivalents.)

# General Baccalaureate Degree Requirements

Applicable to all students pursuing all bachelors degree programs

## Catalog of Graduation

Students shall satisfy the general education and residence requirements in effect upon first enrollment as a degree seeking student at Missouri State. Major and minor requirements and other special degree requirements in effect at the time the student is admitted to that program shall be satisfied. Candidates for the Bachelor of Science in Education degree must meet all Missouri state teacher certification requirements in effect at the time the certificate is granted.

**If a student re-enrolls after an absence of one calendar year or more from Missouri State, requirements in effect at the time of readmission as a degree seeking student must be satisfied.**

Any undergraduate student who re-enrolls at Missouri State within one year of being released from military assignment shall be allowed to continue under the same "catalog of graduation." Any undergraduate student who had been admitted to a degree program or any graduate student with an approved program of study prior to mobilization and who re-enrolls within one year of being released from military assignment shall not be subject to any additional degree requirements enacted in the interim.

Transfer students from Missouri public colleges and universities may follow the general education and general baccalaureate degree requirements in effect at Missouri State when they first enrolled (or re-enrolled after an absence of one calendar year or more) as degree seeking students at the institutions from which they transferred. The general education catalog year for these students will be established at the point of admission on the basis of this policy. Students who elect instead to follow the general education and general baccalaureate degree requirements in effect during their first semester may do so by notifying the Degree Check Office.

## Credits and Grade Point Average

All candidates for any baccalaureate degree must meet the following credits and grade point average requirements:

1. completed a total of at least 125 semester hours of credit;
2. complete 40 hours in upper division courses (upper division courses are numbered 300 or above);
3. at least a 2.00 GPA on all courses attempted at Missouri State;
4. at least a 2.00 GPA on all college courses (Missouri State and transfer combined);
5. at least a 2.00 GPA on all Missouri State and transfer courses used to meet the general education requirements;
6. at least a 2.00 GPA on all courses attempted at Missouri State which is required in the major and all other courses bearing the prefix of the major\*;
7. at least a 2.00 grade point average on all courses attempted at Missouri State which is required in the minor and all other courses bearing the prefix of the minor\*.

Candidates for the **Bachelor of Science in Education** degree are also required to meet the following additional grade point average requirements. All GPA requirements include both Missouri State and transfer grades.

1. at least a 2.50 GPA on all courses attempted at all colleges attended;
2. at least a 2.50 GPA in the certificate subject area (major field of study);

3. at least a 2.50 GPA in any additional certificate subject area;
4. at least a 2.50 GPA in the professional education courses;
5. no grade lower than a "C" in all professional education courses.

Candidates for the **Bachelor of Science in Nursing** are also required to have at least a 2.50 GPA on all work attempted at Missouri State.

Candidates for the **Bachelor of Social Work Degree** are also required to have at least a combined 2.50 GPA on all work attempted and 2.50 GPA in all courses counted toward the major.

Candidates for **majors in the College of Business Administration** are also required to have at least a 2.50 GPA for all upper division College of Business Administration courses attempted at Missouri State.

Candidates for the **major in Sociology and Criminology** are also required to have at least a 2.50 GPA in all courses counted toward the major.

Candidates for **African American Studies and Gender Studies minors** are also required to have at least a 2.50 GPA in all courses taken at Missouri State and counted toward the minor.

*\*Excluding those courses which are designated by the departments as not counting toward the major and/or minor.*

## Residence

A candidate for a degree who transfers credit from another college must meet the following residence requirements:

1. Complete a minimum of at least 30 hours of courses administered by the Springfield Campus;
2. Complete at least 12 hours of upper division credit in the major in courses administered by the Springfield Campus;
3. Complete at least 6 hours of upper or lower division credit in the minor in courses administered by the Springfield Campus;
4. Complete at least 20 out of the last 30 hours in courses administered by the Springfield Campus. Students who have completed at least 90 hours in courses administered by the Springfield Campus, may petition the department head of their major to take less than 20 out of the last 30 hours on the Springfield Campus. If this petition is granted, written approval from the department head must be forwarded to the Degree Check Office prior to the semester of graduation.

Exceptions to 20 out of the last 30 hours requirement are made for the following: a) Medical Technology majors when the last year is completed at an approved school of Medical Technology, b) Radiography majors when the last two years are completed at an approved school of Radiologic Technology, c) Animal Science major when the last two years are completed at the University of Missouri School of Veterinary Medicine and, d) students who participate in a Missouri State study away or exchange program approved by the University College, and e) students in the West Plains Campus completion degree programs.

## Time Limit

Credit for courses completed in the major more than eight years before the student's date of graduation may be disallowed by the major department.

### Teacher Certification

A Bachelor of Science in Education degree may be granted without a teaching certificate if the graduate does not present evidence of good moral character as determined by the Professional Education Committee.

### Constitution Study

No student may graduate without complying with the state law known as Senate Bill No. 4, 1947 (Mo. Rev. St. Sec. 170.011), which provides that students must be “given regular courses of instruction in the Constitution of the United States and of the State of Missouri, and in American history including the study of American institutions.”

Students may meet this requirement by completing the American Studies requirements under general education.

Transfer students who have had a course in American government (PLS 101) that did not include a study of the Missouri constitution must enroll in PLS 103.

### Subsequent Undergraduate Degree

**General Education Requirements.** Candidate must satisfy all General Education requirements in effect upon first enrollment at Missouri State or re-enrollment after an absence of one calendar year, with the following exception: Students whose first baccalaureate degree was from Missouri State or another regionally accredited college or university will be considered to have met all General Education requirements.

**Major/Minor Requirements.** Candidate must satisfy all requirements for a major that is in a different field of study from the major in the first degree. If the major in the second degree requires a minor, that minor may not be in the same field of study as the major or minor in the first degree.

**Specific Degree Requirements and General Baccalaureate Degree Requirements.** Candidate must satisfy all specific degree requirements and all general baccalaureate degree requirements.

### Multiple Use of Courses

Courses may be counted toward meeting the requirements in more than one area (major and minor, two majors, major and general education requirements, etc.) unless specifically prohibited by the academic departments and so stated in the catalog.

### General Education Assessment Exam

All students admitted into a degree program during the fall 1993 semester and beyond shall complete a nationally normed test designed to assess general education and educational preparedness. The general education assessment exam may be taken during the student's junior or senior year, and must be taken prior to graduation.

Information regarding this assessment exam may be obtained from the Center for Assessment and Instructional Support or from our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=assessment and exit exam).

### Appeals for Exceptions

Students who wish to appeal for exceptions to the **general baccalaureate** degree requirements as stated above should submit an appeal to the Office of Academic Affairs, Carrington Hall 209. Such appeals will be considered by the Degrees Committee.

Appeals for exceptions to **major or minor** requirements should be made to the department head of the major or minor.

Appeals for exceptions to the **general education** policies and/or requirements should be made to the Associate Dean of the University College, University College Hall 123. Students who are unsatisfied with the Associate Dean's decision may appeal to the Office of Academic Affairs. Such appeals will be considered by the Degrees Committee.

## Specific Degree Requirements

### Bachelor of Applied Science (BAS) Degree Requirements

The Bachelor of Applied Science degree provides graduates of Associate programs the opportunity to complete a baccalaureate level program and to enhance and expand their general education and technical core competencies.

The candidate for this degree must meet the following requirements:

- |  | <b>Hours</b> |
|--|--------------|
| A. General Education requirements .....  | 43-54        |
| B. Major requirements (see Department of Agriculture and Department of Industrial Management section of catalog) |              |
| C. Additional course credit to bring the total to at least .....   | 125          |
| D. All general baccalaureate degree requirements listed in this section of the catalog.                          |              |

The Bachelor of Applied Science degree is available with these comprehensive majors and optional minors.

#### Majors

General Agriculture  
Technology Management

#### Minors

Accounting  
Advertising and Promotion  
Computer Information Systems  
e-Business  
Finance  
General Business  
Human Resources Management/Industrial Relations  
Industrial Management  
Insurance  
International Management  
International Marketing  
Legal Studies  
Logistics and Transportation  
Management  
Marketing  
Personalized  
Real Estate  
Retailing/Merchandising  
Selling  
Web Application Development

### Bachelor of Arts (BA) Degree Requirements

The Bachelor of Arts degree denotes a broad background in the liberal arts.

The candidate for this degree must meet the following requirements.

- |   | <b>Hours</b> |
|---|--------------|
| A. General Education requirements .....   | 43-54        |
| B. Specific Requirements: *   |              |
| 1. Complete 12 hours in one language selected from courses within the Department of Modern and Classical Languages numbered 101 through 205, and 320 or above. The language selected must not be the student's native language. Consult with the Department of Modern and Classical Languages regarding any exceptions or substitutions. .... | 12           |
| 2. World History I, II (HST 103, 104)** .....   | 6            |
| 3. Philosophy** .....   | 3            |
| 4. Fine Arts*** .....   | 6            |

- C. A major of not fewer than 30 hours and a minor of not fewer than 15 hours; or multiple majors; or a comprehensive program requiring not fewer than 30 hours in one discipline and not less than 15 hours in cognate studies ..... 45
- D. Additional course credit to bring the total to at least ..... 125
- E. All general baccalaureate degree requirements listed in this section of the catalog.

*\* Courses used to satisfy specific requirements may not be taken pass/not pass*

*\*\* HST 103 or 104 or PHI 115 will also count toward the General Education Culture and Society Humanities Perspective. PHI 105 or PHI 110 may also count toward the General Education Self-Understanding Humanities Perspective.*

*\*\*\* See departments of Art and Design; English; Modern and Classical Languages; Health, Physical Education and Recreation; Music; and Theatre and Dance for list of designated courses. Courses used to meet general education requirements may not be used to meet the fine arts requirement on the Bachelor of Arts degree.*

The Bachelor of Arts degree is available with these majors and minors:

#### Majors

Anthropology  
Antiquities\*  
    options:  
    Classical Studies  
    Near Eastern Studies  
    New World Studies  
Art and Design  
Art History  
Biology  
Communication  
Criminology\*  
Economics  
English  
    options:  
    Creative Writing  
    Literature  
French  
Geography  
German  
History  
Individualized\*  
Latin  
Mass Media  
    options:  
    Film Studies  
    Media Studies  
Mathematics  
Music  
Philosophy  
Political Science  
Professional Writing  
Psychology  
Public Administration  
Religious Studies  
Sociology  
Spanish  
Theatre Performance Studies

*\* Comprehensive major. Does not require a minor.*

**Minors**

Accounting  
 Advertising and Promotion  
 African American Studies  
 Ancient Greek  
 Anthropology  
 Antiquities  
 Art  
 Art History  
 Asian Studies  
 Astronomy  
 Biology  
 Biomedical Sciences  
 Chemistry  
 Child and Family Development  
 Coaching  
 Communication  
 Computer Information Systems  
 Creative Writing  
 Criminology  
 Dance  
 e-Business  
 Economics  
 English  
 Environmental Sciences and Policy  
 Equine Studies  
 Film Studies  
 Finance  
 Folklore  
 French  
 Gender Studies  
 General Business  
 General Consumer and Family Studies  
 Geography  
 German  
 Gerontology  
 Global Studies  
 Health Care Management  
 History  
 Housing and Interior Design  
 Human Resources Management/Industrial Relations  
 Industrial Management  
 Insurance  
 International Management  
 International Marketing  
 International Relations  
 Journalism  
 Latin  
 Latin American Studies  
 Legal Studies  
 Library Science  
 Linguistics  
 Logistics and Transportation  
 Management  
 Marketing  
 Mass Media  
 Mathematics  
 Middle Eastern Studies  
 Military Science  
 Music  
 Native American Studies  
 Nutrition  
 Personalized  
 Philosophy  
 Political Science  
 Psychology  
 Public Administration

Public Law  
 Real Estate  
 Religious Studies  
 Retailing/Merchandising  
 Selling  
 Sociology  
 Spanish  
 Technical Writing  
 Theatre  
 Tourism and Travel  
 Web Application Development

## Bachelor of Fine Arts (BFA) Degree Requirements

The Bachelor of Fine Arts degree qualifies a student for professional work and/or graduate study.

The candidate for this degree must meet the following requirements:

	<b>Hours</b>
A. General Education requirements .....	<b>43-54</b>
B. Major requirements .....	<b>72-88</b>
C. Additional course credit to bring total to at least .....	<b>125</b>
D. All general baccalaureate degree requirements listed in this section of the catalog.	

The Bachelor of Fine Arts degree is available with these majors. Minors are available, although this degree does not require a minor.

**Majors**

Art  
 options:  
 Ceramics  
 Computer Animation  
 Drawing  
 Metal/Jewelry  
 Painting  
 Photography  
 Sculpture  
 Dance  
 options:  
 Dance Studies  
 Performance  
 Design  
 options:  
 Graphic Design  
 Illustration  
 Musical Theatre  
 Theatre  
 options:  
 Design/Technology  
 Performance

**Minors**

Advertising and Promotion  
 Art History  
 Creative Writing  
 English  
 Folklore  
 Latin American Studies  
 Library Science  
 Marketing  
 Native American Studies  
 Personalized  
 Philosophy  
 Technical Writing

## Bachelor of Music (BM) Degree Requirements

The Bachelor of Music degree prepares a student for graduate study, for a career as a performing artist, and/or for a career as a private teacher in the field of music. The degree is offered with a comprehensive major.

The candidate for this degree must meet the following requirements:

- |   | <b>Hours</b> |
|---|--------------|
| A. General Education requirements .....   | 43-54        |
| B. Major requirements (see Department of Music Section of catalog) .....                | 86-94        |
| C. All general baccalaureate degree requirements listed in this section of the catalog. |              |

The Bachelor of Music degree is available with these majors and minors.

### Majors

#### Music

- options:  
Composition  
Instrumental Performance  
Keyboard Performance  
Vocal Performance

### Minor

- English  
Personalized

## Bachelor of Music Education (BME) Degree Requirements

The Bachelor of Music Education degree provides a training program for music teachers. The holder of this degree is normally granted a certificate to teach in Missouri. Refer to the College of Education section of this catalog for Teacher Education Program requirements as well as the areas of teacher certification.

The candidate for this degree must meet the following requirements:

- |  | <b>Hours</b> |
|--|--------------|
| A. General education requirements .....  | 49           |
| B. Major requirements (see Department of Music Section of catalog)   |              |
| C. Additional course credit to bring total to at least .....   | 125-134      |
| Most programs leading to teacher certification require more than the 125 University minimum for graduation. It is the student's responsibility to meet all degree requirements for the Bachelor of Music Education as specified by the Music Department. |              |
| D. All general baccalaureate degree requirements listed in this section of the catalog.  |              |
| E. All Teacher Education Program requirements listed in this section of the catalog.   |              |

The Bachelor of Music Education degree is available with this major.

### Majors

#### Music

- options:  
Instrumental  
Vocal/Choral

## Bachelor of Science (BS) Degree Requirements

The Bachelor of Science degree permits a high degree of specialization in certain fields.

The candidate for this degree must meet the following requirements:

- |  | <b>Hours</b> |
|--|--------------|
| A. General education requirements .....  | 43-54        |
| B. Major of not less than 24 hours and a minor of not less than 12 hours; or multiple majors; or comprehensive major of not less than 36 hours ..... | 36           |
| C. Additional course credit to bring the total to at least .....   | 125          |
| D. All general baccalaureate degree requirements listed in this section of the catalog.  |              |

The Bachelor of Science degree is available with these majors and minors:

### Majors

- Accounting\*  
Agricultural Business\*  
options:  
Agricultural Enterprise Management  
Agricultural Finance and Management  
Agricultural Marketing and Sales  
Agronomy\*  
Animal Science\*  
Anthropology  
Biology  
Biology\*  
options:  
Ecology, Evolution, and Systematics  
General Biology  
Microbiology and Biotechnology  
Organismal Biology  
Wildlife Biology  
Cell and Molecular Biology\*  
Chemistry  
Chemistry\*  
options:  
Biochemistry  
Graduate School  
Industrial  
Child and Family Development\*  
Clinical Laboratory Sciences-Medical Technology\*  
Clothing, Textiles and Merchandising\*  
options:  
Fashion Design and Product Development  
Fashion Merchandising and Management  
Communication  
options:  
Communication Studies  
Organizational Communication  
Communication Sciences and Disorders\*  
options:  
Audiology  
Education of Deaf and Hard of Hearing  
Speech-Language Pathology  
Computer Information Systems\*  
Computer Science  
Construction Management\*  
Criminology\*

Dietetics\*  
 Economics  
 Economics\*  
 Electronic Arts  
   options:  
     Audio Studies  
     Computer Animation Studies  
     Multimedia Studies  
     Video Studies  
 Engineering Physics\*  
   options:  
     Computer Engineering  
     Materials Science  
     Personalized  
 Entertainment Management\*  
 Finance\*  
   options:  
     Finance  
     Real Estate  
 French  
 General Agriculture\*  
   options:  
     Agricultural Communications  
     Agriculture  
     Food Plant Management  
 General Business\*  
 Geography  
   options:  
     Environmental and Natural Resources  
     General  
     Travel Geography  
 Geology  
 Geology\*  
 Geospatial Sciences\*  
 German  
 Gerontology\*  
 Horticulture\*  
 Hospitality and Restaurant Administration\*  
 Housing and Interior Design\*  
 Individualized\*  
 Industrial Management\*  
   options:  
     CAD Management  
     Distribution  
     Food Processing  
     Production  
     Quality Control  
 Insurance and Risk Management\*  
 Journalism  
   options:  
     Broadcast Journalism  
     Print Journalism  
 Logistics and Transportation  
 Management\*  
   options:  
     Administrative Management  
     Entrepreneurship  
     Human Resources Management  
     International Business Administration  
     Production and Operations Management  
 Marketing\*  
   options:  
     Advertising and Promotion  
     Marketing Management  
     Marketing Research  
     Retailing/Merchandising  
     Sales/Sales Management  
 Mass Media  
   options:  
     Film Studies  
     Media Studies

Mass Media\*  
   options:  
     Media Operations  
     Production  
 Mathematics\*  
 Mathematics  
   options:  
     Actuarial Mathematics  
     Applied Mathematics  
     General Mathematics  
     Statistics  
 Physics  
 Planning\*  
   options:  
     Community and Regional Planning  
     Tourism Planning and Development  
 Political Science  
 Political Science\*  
 Professional Writing  
 Psychology  
 Public Administration  
 Public Relations\*  
 Radiography\*  
   options:  
     Education  
     Management  
     Science  
 Recreation and Leisure Studies  
 Recreation and Leisure Studies\*  
 Respiratory Therapy\*  
   options:  
     Education  
     Management  
     Science  
 Socio-Political Communication\*  
 Sociology  
 Spanish  
 Sports Medicine and Athletic Training\*  
 Wildlife Conservation and Management\*

*\*Comprehensive major. Does not require a minor.*

#### Minors

Accounting  
 Advertising and Promotion  
 African American Studies  
 Agricultural Business  
 Agronomy  
 Animal Science  
 Anthropology  
 Antiquities  
 Applied Social Research  
 Art  
 Art History  
 Asian Studies  
 Astronomy  
 Biology  
 Biomedical Sciences  
 Chemistry  
 Child and Family Development  
 Coaching  
 Communication  
 Community and Regional Planning  
 Computer Information Systems  
 Computer Science  
 Creative Writing  
 Criminology  
 Dance  
 Design  
 e-Business



Economics  
 English  
 Environmental Physics Technology  
 Environmental Sciences and Policy  
 Equine Studies  
 Exercise Biology  
 Film Studies  
 Finance  
 Folklore  
 French  
 Gender Studies  
 General Agriculture  
 General Business  
 General Consumer and Family Studies  
 Geography  
 Geology  
 Geospatial Sciences  
 German  
 Gerontology  
 Global Studies  
 Health Care Management  
 History  
 Horticulture  
 Housing and Interior Design  
 Human Resources Management/Industrial Relations  
 Industrial Management  
 Informatics  
 Insurance  
 International Management  
 International Marketing  
 International Relations  
 Journalism  
 Latin  
 Latin American Studies  
 Legal Studies  
 Library Science  
 Linguistics  
 Logistics and Transportation  
 Management  
 Marketing  
 Mass Media  
 Mathematics  
 Middle Eastern Studies  
 Military Science  
 Molecular Biology  
 Music  
 Native American Studies  
 Nutrition  
 Personalized  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Public Administration  
 Public Law  
 Real Estate  
 Religious Studies  
 Retailing/Merchandising  
 Selling  
 Sociology  
 Spanish  
 Spanish Proficiency  
 Technical Writing  
 Theatre  
 Tourism and Travel  
 Web Application Development

## Bachelor of Arts (BA) and Bachelor of Science (BS) Individualized Major

An individualized major is offered on the Bachelor of Arts and Bachelor of Science degrees. The individualized major is intended for any student with a clear sense of direction, motivation and strong concept of an educational program that will best serve individual needs. This major shall be described individually, specifying the area(s) of emphasis.

For specific degree requirements for an Individualized Major consult the University College section of this catalog.

## Bachelor of Science in Education (BSED) Degree Requirements

The Bachelor of Science in Education degree provides a training program for teachers. The holder of this degree is normally granted a certificate to teach in Missouri. Refer to the College of Education section of this catalog for Teacher Education Program requirements as well as the areas of teacher certification.

The candidate for this degree must meet the following requirements:

- |  | <b>Hours</b>   |
|--|----------------|
| <b>A.</b> General Education requirements .....   | <b>49</b>      |
| <b>B.</b> Major requirements (see department of major)   |                |
| <b>C.</b> Additional course credit to bring total to at least .....  | <b>125-140</b> |
| Most programs leading to teacher certification require more than the 125 University minimum for graduation. It is the student's responsibility to meet all degree requirements for the Bachelor of Science in Education as specified by the department of the major. |                |
| <b>D.</b> All general baccalaureate degree requirements listed in this section of the catalog.   |                |
| <b>E.</b> All Teacher Education Program requirements listed in this section of the catalog.  |                |

The Bachelor of Science in Education degree is available with these majors. Minors are available, although this degree does not require a minor.

### Majors

Agriculture Education  
 Art and Design  
 Art and Design\*  
 Biology Education  
   options:  
     Categorical Science  
     Unified Science  
 Business Education\*  
 Chemistry Education  
   options:  
     Categorical Science  
     Unified Science  
 Early Childhood Education  
 Earth Science Education  
 Elementary Education  
 English  
 French  
 German  
 History  
 Latin  
 Mathematics

Middle School Education  
 Physical Education  
 Physics Education  
 Spanish  
 Special Education/Cross Categorical  
 Speech and Theatre Education  
   options:  
     Communication  
     Theatre  
 Technology Education  
 Vocational Family and Consumer Sciences

\* *Comprehensive major.*

#### Minors

Agriculture  
 Art  
 Art History  
 Biology  
 Business Education  
 Coaching  
 Criminology  
 Developmental Reading  
 Economics  
 English  
 French  
 Gender Studies  
 General Consumer and Family Studies  
 Geography  
 German  
 History  
 Journalism  
 Latin  
 Library Science  
 Linguistics  
 Mathematics  
 Military Science  
 Music  
   options:  
     Instrumental  
     Vocal  
 Personalized  
 Philosophy  
 Political Science  
 Psychology  
 Public Administration  
 Religious Studies  
 Sociology  
 Spanish  
 Teaching English to Speakers of Other Languages  
 Writing

## Bachelor of Science in Nursing (BSN) Degree Requirements

The Bachelor of Science in Nursing degree prepares registered nurses for increased professional responsibilities and leadership roles in health care.

The candidate for this degree must meet the following requirements:

	<b>Hours</b>
A. General education requirements .....	<b>43-54</b>
B. Major requirements (see Department of Nursing section of catalog) .....	<b>67-76</b>
C. Additional course credit to bring total to at least .....	<b>125</b>
D. All general baccalaureate degree requirements listed in this section of the catalog.	

Minors are available, although this degree does not require a minor.

**Major**  
 Nursing

**Minors**  
 Gender Studies  
 Health Care Management  
 Personalized

## Bachelor of Social Work (BSW) Degree Requirements

The Bachelor of Social Work degree prepares students for beginning generalist social work practice in the human-service field.

The candidate for this degree must meet the following requirements:

	<b>Hours</b>
A. General education requirements .....	<b>43-54</b>
B. Major requirements (see School of Social Work section of catalog) .....	<b>63</b>
C. Additional course credit to bring total to at least .....	<b>125</b>
D. All general baccalaureate degree requirements listed in this section of the catalog.	

Minors are available, although this degree does not require a minor.

**Major**  
 Social Work

**Minors**  
 African American Studies  
 Anthropology  
 Applied Social Research  
 Child and Family Development  
 Criminology  
 Gender Studies  
 Gerontology  
 History  
 Latin American Studies  
 Personalized  
 Philosophy  
 Political Science  
 Psychology  
 Public Administration  
 Public Law  
 Religious Studies  
 Sociology

## Personalized Minor (Any Degree)

A student whose educational objectives cannot be best served by existing minors within a department may design a personalized minor suited to individual needs. The student, after completing a minimum of 30 hours, must petition in writing the department head of the area in which the minor is to be taken. This petition is prepared in consultation with the student's advisor and the department of the minor; it includes a list of the proposed courses to be taken with a detailed statement of justification. The department head may accept or reject the petition. When the proposal is agreed upon by both the student and the department head, a personalized program is written and forwarded to the Degree Check Office, Carrington Hall room 304.

## Teacher Certification, Teacher Education Program and Secondary Education Requirements

Professional Education Unit, Head: David L. Hough, Ph.D.

The Teacher Education Program and the Secondary Education programs are interdisciplinary in nature and are applicable to all students desiring teacher certification. These programs are overseen by the Professional Education Unit (PEU) with a Professional Education Committee (PEC) and numerous sub committees. All academic departments/schools with a teacher education program participate in these committees and administer their programs in accordance with approved policies and curriculum.

The following offices assist the PEU, PEC, and the departments in administering the programs.

### Office of Student Services

**Director:** Professor David W. Brown, Ed.D.  
200 Hill Hall, Phone 836-5253

### Educational Field Experiences and Clinical Practice

**Coordinator:** Sharon L. Terry, B.M.E.  
200 Hill Hall, Phone 836-5253

### Office of Teacher Certification Compliance

**Coordinator:** Scott K. Fiedler, M.S.  
203 Hill Hall, Phone 836-8772

### Professional Education Advisement Center

**Coordinator:** Stephanie C. Marinec, M.S.Ed.  
202 Hill Hall, Phone 836-5429

### Secondary Education

**Director:** Evelyn S. Maxwell, M.S.Ed.  
202 Hill Hall, Phone 836-5944

## Missouri State Board of Education Approved Programs

Missouri State University has been approved by the Missouri State Board of Education to offer programs for purposes of teacher preparation and certification. The approval date is from October 15, 2003 and extended through 2010. Refer to the College of Education section of this catalog for a list of the approved programs.

## Missouri State Teacher Certification

Students who have already obtained a bachelor's degree and are seeking Missouri state teacher certification should contact the Office of Teacher Certification Compliance, 203 Hill Hall, Phone 836-8772. This office provides a program evaluation service for initial certificates (\$40 fee required), advisement and assistance to gain certification and/or additional endorsements.

## Correspondence Credit

To apply correspondence credit in educational methods courses on a Bachelor of Science in Education degree, a student must have written permission from the Dean of the College of Education.

## Teacher Education Program

Missouri State University is approved by the Missouri State Board of Education to offer basic and advanced professional education programs for purposes of professional certification.

Admission to the University does not automatically qualify a student to participate in the professional component of the teacher education program. That participation is granted upon demonstration of a high level of academic and professional competence. Successful participation should result in the student's achieving certification to teach in Missouri public schools.

## Professional Portfolio Component

All students desiring Missouri certification are required to submit a professional portfolio. This portfolio will be assessed, evaluated, and monitored throughout the teacher education program with assistance and guidance from faculty. There are three distinct checkpoints for the portfolio: 1) at admission to the teacher education program (culmination of the introductory course-ELE 302, SEC 302, SPE 310, MUS 200, or PED 200), 2) at the designated methods course(s) for each departmental major, and 3) at the culmination of supervised teaching.

## Diversity Component

Diversity course work is required through General Education hours, program specific hours, or elective hours. Please consult with your program or department of major for specific program requirements that may meet this diversity component.

## Professional Liability

All candidates for professional education programs at Missouri State University are required to have professional liability insurance coverage before being placed in the initial practicum, and/or subsequent clinical and field experiences. Professional liability insurance may be obtained at a minimal cost through a personal insurance carrier or through one of many available professional student organizations that provide insurance as part of their membership package. The proof of coverage must accompany all other required documentation prior to placement. No exceptions may be granted.

## Certification Eligibility

Completion of certification requirements is a four-step process. Students who receive a certification recommendation must meet the standards for certification eligibility as outlined below:

- 1. Requirements for Eligibility to Enroll in Professional Education Courses:** Before a student can enroll in the introductory methods courses (ELE 302, SEC 302, SPE 310, MUS 200, or PED 200), the student must have:
  - a. A valid ACT score on file if required by the University for admission purposes and/or Missouri Department of Elementary and Secondary Education and a combined (both Missouri State and transfer) GPA of 2.50 or above.
  - b. Completed EDC 150 or met equivalent competencies with a grade of "C" or better.
  - c. A highway patrol background check prior to any clinical experience placement (fee required).

Note: The Department of Elementary and Secondary Education will require a FBI background check prior to issuing a certificate.

**2. Requirements for Admission to and Continuance in the Teacher Education Program:** Students who plan to complete teacher certification requirements must be admitted to the Teacher Education Program. Application is automatically made when enrolling in SEC 302, ELE 302, SPE 310, MUS 200, or PED 200. Admission to the Program is required before students are allowed to begin additional courses in the professional education component (with the exception of IMT 365 which may be taken concurrently with ELE 302, SPE 310, or SEC 302).

The criteria used to determine admission or rejection to the Teacher Education Program are outlined below. In addition to having completed at least 45 semester hours (secondary and middle school majors) or 30 semester hours (early childhood, elementary, and special education majors) of university course work, the student must have:

- a. A combined (both Missouri State and transfer) GPA of 2.50 or above
- b. Passed all sections of the Missouri State Board of Education entry examination (CBASE) with a score of 265 or higher<sup>1</sup> on each section and attained a minimum grade of "C" in COM 115.
- c. Completed SEC 302 or SEC 300/301; ELE 302, SPE 310, MUS 200, or PED 200 with a grade of "C" or higher.
- d. Passed portfolio first checkpoint.
- e. A background check on file.

A student's application for admission to the Program is considered when the requirements listed above are complete.

**3. Requirements for Assignment to Supervised Teaching:**\* Successful completion of supervised teaching is a requirement for teacher certification. The criteria used to determine eligibility for Supervised Teaching are outlined below. The student must have:

- a. Been admitted to the Teacher Education Program.
- b. A statement from the Director of Taylor Health and Wellness Center that a tuberculin test or chest x-ray has been completed and that the student has not been identified as infected with a communicable disease.
- c. A combined GPA of 2.50 or above for all college level course work completed.
- d. Completed at least 15 hours, with a GPA of 2.50 or above, at Missouri State.
- e. A combined GPA of 2.50 or above in major.
- f. Passed portfolio second checkpoint.
- g. Passed Praxis II relevant to certification area.
- h. Been recommended by the student's advisor.<sup>1</sup> The recommendation shall be based upon the applicant's character, personality, and potential for teaching.
- i. Been recommended by the School of Teacher Education.<sup>1</sup> The recommendation shall be based upon the applicant's character, personality, and potential for teaching.
- j. Been recommended by the department in which the student is completing an undergraduate major or seeking certification.<sup>1</sup> The recommendation shall be based upon the applicant's character, personality, and potential for teaching. For those students completing a degree which involves significant work in more than one department (i.e., Speech & Theatre Education, etc.) the departmental recommendation will come from the department in which the greatest number of hours is completed. For those students who have

already completed a degree, the departmental recommendation will come from the department which would normally provide the majority of the course work for that certification.

*\*Additional fee of \$235 per 8-week placement for supervised teaching outside of service area.*

**4. Requirements for Certification Recommendation:** To be recommended for an initial Missouri teaching certification, the student must have:

- a. Successfully completed Supervised Teaching.
- b. Met all Missouri teacher certification requirements which are in effect at time of certification. These requirements are normally met by persons earning the Bachelor of Science in Education degree at Missouri State.
- c. A cumulative combined (both Missouri State and transfer) GPA of 2.50 or higher.
- d. Met the criteria established by the Missouri State Board of Education exit evaluation procedures. (Praxis II: Subject Assessments Specialty Area Tests)
- e. Completed professional education courses with a GPA of 2.50 (Missouri State and transfer combined) and no grade lower than "C".
- f. A grade point average of 2.50 (Missouri State and transfer combined) on a 4.00 scale in the certificate subject area and for each additional area of endorsement.
- g. Passed final portfolio requirement.

Note: The Department of Elementary and Secondary Education will require a FBI background check prior to issuing a certificate.

*<sup>1</sup>A student who fails to meet this criterion and who wishes to appeal may do so in writing. Such appeals shall be filed with the chairperson of the Professional Education Exceptions Committee.*

*A student's qualifications for continuance in the Teacher Education Program is subject to review and change by the Professional Education Committee at any time while the student is enrolled.*

## Secondary Education Bachelor of Science in Education (Certifiable grades 9-12 and K-12)

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. (See application procedures at the beginning of the College of Education section of catalog.)

In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades. Additional State Board of Education certification rules require passing scores on all portions of the College Basic Academic Subject Examination (C-BASE) and successful completion of the appropriate Praxis II Examination Specialty Area Test with a score equal to Missouri's qualifying score.

The curriculum for secondary teaching leads to the degree of Bachelor of Science in Education and carries with it an initial professional certificate (PCI) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education.

- A. General Education Requirements - see "General Education section" (49 hours)
- B. Specific major requirements may also meet General Education Requirements (see the content discipline department for course listing). Students must also satisfy the following requirements which may be met through General Education coursework.
1. Prerequisites for professional education courses are PSY 121 and CIS/CSC 101 or CSC 111, or competency exam.
  2. International students must provide documentation of completion of coursework in the following:
    - a. English Composition, two (2) courses, each a minimum of two (2) semester hours;
    - b. U.S. History, three (3) semester hours; and
    - c. U.S. Government, three (3) semester hours.
  3. Admission to the Teacher Education Program requires completion of COM 115 with a grade of "C" or better.
- C. Complete a subject area major not less than 30 hours or a comprehensive major of not less than 50 hours (see discipline department for major requirements). Although not required, minors must be no less than 15 hours. (NOTE: Students who wish to be certified in an additional area of certification should check the state and departmental requirements in that area.)
- D. Professional Education Courses (Physical Education majors must refer to the department section of catalog for admission to teacher education program and degree requirements.)
- The program outlined below has been designed to provide the preparation of Bachelor of Science in Education students and to meet the requirements for Missouri state teacher certification. (NOTE: A grade of "C" or better in each course is required for state certification.)

1. Required Core (27-30 hours):
    - a. SEC 302(4)
    - b. PSY 360(3)
    - c. EDC 350(3)
    - d. SPE 340(2), Music Education majors satisfy this requirement by completion of MUS 340(2). Physical Education majors satisfy this requirement by completion of PED 468(4).
    - e. RDG 474(2)
    - f. Teaching Methods Course (3-4): courses will be listed in the department section within the Professional Education section of the major
    - g. Supervised Teaching (10-12): courses will be listed in the department section within the Professional Education section of the major, else take the following
      1. SEC 493(5-6)
      2. SEC 494(5-6) or ELE 496(5-6)
  2. Additional required competencies (or equivalent course(s) required for major)
    - a. EDC 150(1)
    - b. IMT 365(3)

The following courses are recommended electives but are not required for completion of the degree: SFR 442(2), SFR 396(2), SFR 482(2), SFR 547(2), SFR 581(2).  
Note: A teaching methods course is required for each area of certification.
- E. Most programs leading to teacher certification require more credits than the 125 University minimum for graduation. It is the student's responsibility to meet the degree requirements for the Bachelor of Science in Education-Secondary in specific subject area major areas (See the program requirements listed by departments offering each major).
- F. General Baccalaureate Degree Requirements (see "General Baccalaureate Degree Requirements" section of catalog)

### Accelerated Masters Programs

The Accelerated Master's degree option provides a transition that enables outstanding undergraduate students to begin taking graduate course work in their junior or senior year and thus combine components of the undergraduate and graduate curriculum. Students must apply and be admitted to the accelerated master's program by the department and the Graduate College before enrolling for any courses to apply to the graduate degree. See the Graduate Catalog for more information.

Depending on the program, a maximum of 12 hours of graduate credits will apply toward completion of the undergraduate degree requirements. Students accepted into an accelerated program must complete a "Mixed Credit" form prior to registering for courses intended to satisfy both undergraduate and graduate requirements. This form can be obtained from the student's department or the Graduate College, 306 Carrington Hall.

Under the Accelerated Master's degree option, a student will be fully admitted to the Graduate College upon completion of the requirement of the baccalaureate degree. Undergraduate students interested in the Accelerated Master's opportunity should contact their department or the Graduate College (417-836-5335) to determine admission requirements and procedures. Graduate programs offering an accelerated option are:

- Master of Accountancy
- Master of Business Administration
- Master of Natural and Applied Science
- Master of Public Administration
- Master of Science, Cell and Molecular Biology
- Master of Science, Chemistry
- Master of Science, Geospatial Sciences in Geography and Geology
- Master of Science, Materials Science
- Master of Science, Mathematics
- Master of Science in Nursing

### Certificate Programs

The University certificate programs are designed for those who want to complete a recognized concentration of study in an area. Each certificate program is a focused combination of courses designed to significantly increase competency in the stated discipline area. Students completing these certificate programs will have that completion status reflected on their official transcript. These undergraduate certificate programs are offered:

- Geographic Information Sciences (18 hours, Geography, Geology, and Planning Department)
- Internal Auditing (12 hours, School of Accountancy)
- Manufacturing Management (12 hours, Industrial Management Department)
- Planning and Development (13 hours, Geography, Geology, and Planning Department)

Graduate certificate programs are also available. See the "Graduate College" section of catalog.

### Honors College Program

The Honors College provides a program of enhanced, advanced study and recognition for students of unusually strong academic achievement and motivation. Students are provided intellectual opportunities beyond those generally found in the more traditional programs: smaller and enriched classes, direct contact with outstanding faculty members, and the option to pursue their own intellectual, research, and creative interests. See the "University College" section of catalog for more information.

### Off-Campus Completion Programs

Missouri State brings quality instruction to students throughout southwest Missouri at various locations. Faculty for these courses are regular faculty who commute from the Springfield Campus or who use the latest technology by teaching via BearNet, or qualified instructors from the local community who have been approved by appropriate academic departments as having areas of special expertise.

BearNet allows a live classroom-to-classroom audio-video connection. Students are able to see and speak with students and instructors in BearNet interactive classrooms at other sites. The interactive classroom is designed to foster discussion and interaction, while limiting intrusion by technology. These classrooms are operational in Branson, Joplin, Lebanon, Monett, Mountain Grove, Nevada, and West Plains. The following programs of study may be completed off campus.

#### West Plains Campus/Interactive Video (*BearNet*)

- General Business (BS degree)
- Elementary Education (BSED degree)
- Industrial Technology (BAS degree)
- Master of Business Administration

#### Joplin Graduate Center, Missouri Southern State University Campus, Joplin, MO

- Master of Accountancy
- Master of Arts in Teaching
- Master of Business Administration
- Elementary Education (MSED degree)
- Master of Social Work

#### Nevada Telecenter, Nevada, MO (*BearNet*)

- Master of Business Administration

#### Lebanon Technology and Career Center, Lebanon, MO (*BearNet*)

- Master of Business Administration

### Pre-Professional Programs

The University provides prerequisite courses and degrees for students seeking entrance into professional schools. Students are regularly admitted to leading schools in all professional areas. Because admission to most professional schools is highly competitive, students are urged to work closely with an academic advisor on the selection of courses and the sequence in which they are to be taken. Although there are general guidelines for each profession, students should contact the professional program(s) they intend to pursue for specific admission criteria.

**Pre-Engineering.** The Department of Mathematics and the Department of Physics, Astronomy and Materials Science share student advisement for all pre-engineering areas. Most students select a major in one of the two departments. Contact either department for details.

**Pre-Health Professions.** The University provides pre-professional education for a variety of health occupations. Some of these professional programs require the completion of a bachelor's degree while others encourage students to apply much earlier in their educational careers. Students may decide on any major area offered by the University, provided they complete the admission requirements for their chosen professional program. In those departments most heavily involved in providing the required academic background, special advisors have been trained for

each of the various health areas. General information on health profession careers and academic preparation is provided by the University College Academic Advisement Center.

**Pre-Law.** Pre-law students draw on courses, facilities, and services from throughout the University, but primarily those in the Colleges of Humanities and Public Affairs, Arts and Letters, and Business Administration. Many professors have expertise in law-related subjects, teaching in areas such as political science, economics, history, philosophy, the sciences, and business administration, among others. The University College Advisement Center, departmental pre-law advisors, and Phi Alpha Delta Pre-Law Club sponsored by the Department of Political Science, can assist, direct, and inform students seeking admission to law school.

## Description of Course Listings

Courses are identified according to the following example:

Course Prefix	Course Number	Former Number	Course Title	Credit Hours	Lecture Contact Hours	Lab/Clinical Contact Hours	Course Periodicity
MCL	303	103	Coping with Culture	3	(3-	0)	S.

**Former number** represents the number or prefix previously used to identify the course. Most courses do not have a former number.

**Lecture hours** represents the number of hours per week (based on a 15 week semester) the course will meet in a lecture environment. For courses which are lecture only, the lecture hours will equal credit hours.

**Lab hours** represent the number of hours per week (based on a 15 week semester) the course will meet in a laboratory environment. Two laboratory hours are required for one credit hour. For example, a four credit hour course with three hours of lecture will have two hours of laboratory.

**Clinical hours** represent the number of hours per week (based on a 15 week semester) the course will meet in clinical experiences outside the classroom and may not be listed in the lab hours area and/or in the course description. Normally clinical hours will require 3 hours per hour credit.

**Course periodicity** indicates the schedule on which the course will typically be offered: F=Fall; S=Spring; and Su=Summer. (Many courses with an "F,S" designation are also offered during the summer.) An "E" indicates that the course will be offered in even years and a "O" indicates odd years. A "D" indicates that the course will be offered upon sufficient demand. The individual departments determine when courses will be offered and can provide more details on course periodicity. Check semester class schedules available in the Records Office or the Registration Center for details on semester course offerings.

Following each course listing is a **course description**. The first item included in the course description is the **prerequisite** statement for those courses which have prerequisites. Prerequisites are listed to inform the students what they must have in advance to ensure success in the course. Some prerequisites are checked by the department offering the course and students may be dropped from classes for which they do not meet the prerequisites. Students should register only for courses for which they meet the prerequisites.

Many courses are listed with the prerequisite of "permission" or "and permission." Unless otherwise stated, permission is to be granted by the department head. The student should go to the departmental office to secure a permission to enroll form before registering for the course.

Course descriptions may also contain specific instructions or limitations. Students should review those carefully.

**The following course numbering system is currently in effect:**

Number	Definition
<b>0-99</b>	Background/Developmental
<b>100-199</b>	Lower division courses designed primarily for, but not limited to, freshmen
<b>200-299</b>	Lower division courses designed primarily for, but not limited to, sophomores
<b>300-399</b>	Upper division courses designed primarily for, but not limited to, juniors
<b>400-499</b>	Upper division courses designed primarily for, but not limited to, seniors
<b>500-599</b>	Upper division courses designed primarily for seniors, postbaccalaureate, and graduate students. Graduate credit is awarded to postbaccalaureate and graduate students, and to seniors and nondegree seeking students who have received Senior Permission for Graduate Credit, and preapproved accelerated masters program students may receive Mixed Credit (both undergraduate and graduate credit). Because graduate credit is awarded, such students may be required to complete additional work or a higher quality of work in these 500 level courses.
<b>600-799</b>	Graduate courses open only to graduate, postbaccalaureate, and undergraduate students who have received Senior Permission for Graduate credit; or students admitted to an accelerated masters program and who have received permission for Mixed Credit.
<b>800-899</b>	Graduate courses open only to those admitted into the educational leadership doctoral program or the audiology doctoral program.



## College of Arts and Letters

106 Craig Hall, Phone: 836-5247, FAX: 836-6940  
 Email: [CollegeofArtsandLetters@missouristate.edu](mailto:CollegeofArtsandLetters@missouristate.edu)



**Dean: Professor Gloria J. Galanes, Ph.D.**

**Associate Dean: Professor Carol Anne Costabile-Heming, Ph.D.**

The College of Arts and Letters includes:

### **Department of Art And Design**

**Department Head:** Professor Andrew L. Cohen, Ph.D.  
 308 Ellis Hall, Phone 836-5110

### **School of Communication Studies**

#### **Department of Communication**

**Department Head and Co-Director of the School of Communication Studies:**

Professor Carey H. Adams, Ph.D.  
 375 Craig Hall, Phone 836-4423

#### **Department of Media, Journalism and Film**

**Department Head and Co-Director of the School of Communication Studies:**

Professor Karen Buzzard, Ph.D.  
 370 Craig Hall, Phone 836-5218

### **Department of English**

**Department Head:** Professor W. D. Blackmon, Ph.D.  
 301 Pummill Hall, Phone 836-5107

### **Linguistics Program**

**Administrator:** TBA  
 106 Craig Hall, Phone 836-5247

### **Department of Modern and Classical Languages**

**Department Head:** Associate Professor Madeleine Kernen, Ph.D.  
 376 Craig Hall, Phone 836-5122

### **Department of Music**

**Department Head:** Professor Roger Stoner, D.M.A.  
 206 Ellis Hall, Phone 836-5648

### **Department of Theatre and Dance**

**Department Head:** Professor Wade S. Thompson, M.F.A.  
 355 Craig Hall, Phone 836-5268

## Department of Art and Design

308 Ellis Hall, Phone: 836-5110, FAX: 836-6055

Email: ArtandDesign@missouristate.edu

**Department Head:** Professor Andrew L. Cohen, Ph.D.

**Professors:** Alan H. Brown, M.F.A.; Dwaine Crigger, M.F.A.; Roman Duszek, M.F.A.; Keith A. Ekstam, M.F.A.; Sharon R. Harper, M.F.A.; Cedomir Kostovic, M.F.A.; Sarah Perkins, M.F.A.; Eric Pervuhkin, M.F.A.; Dianne Strickland, Ph.D.; Wade S. Thompson, M.F.A.; Bruce West, M.F.A.; Vonda Yarberry, M.F.A.

**Associate Professors:** Billie Follensbee, Ph.D.; Judith Fowler, M.F.A.; Jerry Hatch, M.F.A.; Maria Michalczyk-Lillich, M.F.A.; Stan Sante, M.F.A.

**Assistant Professors:** Marcus Howell M.F.A.; Kevin Hughes, M.F.A.; Catherine J. Jolivet, Ph.D.; Sean Lyman, M.F.A.; Qian Qian, M.S.; Duat Vu, M.F.A.; Gwen Walstrand, M.F.A.; Steve Willis, Ph.D.; Rebecca Ruige Xu, M.F.A.

**Emeritus Professors:** Jay H. Adams, M.S.; Bill H. Armstrong, M.F.A.; John Careggio, M.F.A.; Emma Lane Elkins, M.F.A.; Susanne Ettinger, B.F.A.; Rodney S. Frew, M.F.A.; Beverly Hopkins, M.F.A.; Frederick Kieferndorf, M.S.; Tom Kinsey, M.Ed.; David Quick, Ph.D.; Bill Senter, M.A.; Hugh Yorty, M.F.A.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Art and Design, B.S.Ed. and Secondary Education/Art, M.S.Ed.

### Credit by Examination

Credit for ART 100, 101, 115, 271 and 272 is available for the Advanced Placement (AP) Examination. Credit for ART 100, 101 and 115 and elective credit hours in DES is available for the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### General Education Courses and Restrictions

**General Information:** ART 271, 272, or 274 may be used toward the Humanities Perspective of the Culture and Society Area of Inquiry. ART 200 may be used toward the Humanities Perspective of the Self-Understanding Area of Inquiry. ART 209 may be used toward the Creativity and Vision Perspective of the Self-Understanding Area of Inquiry. At most, two of these courses may count toward General Education requirements. ART 370 may be used to satisfy the Writing II requirement of the Basic Required Courses in General Education.

**Specific Information for Art and Design Majors:** Candidates for a Bachelor of Arts or Bachelor of Fine Arts degree with a major in the Art and Design Department may *not* use ART 200, 209, 271, 272, or 274 toward their General Education requirements. Candidates for a Bachelor of Science in Education degree with a comprehensive major in Art and Design are required to take ART 271 or 274 and may count this course toward their General Education requirements. Candidates for the Bachelor of Science in Education degree with a non-comprehensive major in Art and Design are required to take ART 274 and may count this course toward their General Education requirements.

### Fine Arts Courses

The following courses may be used to meet the Fine Arts requirement for the Bachelor of Arts degree: ART 200, 271, 272, 273, 274, 374, 378, 381, 382, 385, 386, 387, 472, 474, 475, 478, 479, 480, 483, 484, 485. Courses cannot be used to meet both the General Education and the Bachelor of Arts-Fine Arts requirements.

### Facilities and Resources

The **Art Annex** is the location for many of the studio art classes as well as the foundation art classes. It contains a large workshop for sculpture and three-dimensional design, as well as extensive studio space for drawing and painting. A Macintosh Lab is available on the second floor. Student work is displayed on the first floor of the annex throughout the year.

The Art and Design Department has its department offices in the **Ellis Fine Arts Building**, Room 308. This floor also includes the Visual Resources Collection, a photo critique/lecture room, facilities for the metals/jewelry courses, and a lighted slide viewing booth. On the main (second) floor of Ellis Hall are facilities for ceramics with several kilns and workspaces behind the main building. There is a large lecture room for Art History and Appreciation courses also located on this floor. The fourth floor houses the photographic and printmaking studios.

The ground floor of **Hill Hall**, adjacent to Ellis Hall on the west, houses the foundry. This facility has two large crucibles and is used by sculpture classes for bronze casting.

The **Morris Center** (downtown hall) is the home of the Graphic Design, Illustration, and Computer Animation programs. The fifth floor holds two computer labs. Graphic design classes utilize a Mac Lab while a PC Lab is available for computer animation. In addition to the labs, traditional studio areas are available for student work. The Mac Lab is equipped with Power Macintosh G4s running current graphic design software, including Adobe Photoshop, Illustrator, and Pagemaker, InDesign, as well as Macromedia Freehand, Dreamweaver, Fireworks, Flash, and Quark XPress. Flatbed scanners and Zip Drives are available. B&W Laser, color inkjet, and large-format ENCAD printers are configured to output student work. The animation lab, adjacent to the Mac lab, offers access to PC platform digital imaging and computer animation. Image capture technology is available as well a digital editing suite.

The **Duane G. Meyer** Library maintains an extensive collection of art and design periodicals as well as books relating to art and design history.

See “University Activities, Resources, and Services” section of catalog for information regarding the **Art & Design Gallery** and the **Student Exhibition Center**.

## Majors

### General Admission Requirements for all Majors

All majors in the Department of Art and Design must satisfy the following requirements before they can be admitted to the program:

1. Complete the 12 hours of **Foundations** courses. (Only required of majors in Art, Art and Design, and Design.)
2. Complete any additional requirements for selected major. (See specific major for listing of additional requirements.)

- Submit application for admission into degree program and receive approval from faculty advisor and Head of the Department of Art and Design.

### Foundations Courses (12 hours)

ART 100 .....	Two-Dimensional Design
ART 101 .....	Three-Dimensional Design
ART 115 .....	Drawing I
ART 215 .....	Drawing II

**Waiver of ART 100 Requirement.** If an entering freshman feels that his/her art background is strong enough to permit a waiver of ART 100, Two Dimensional Design, application should be made to the Departmental Head. A portfolio will then be submitted, a written examination will be administered, and an interview will be conducted by a faculty committee of three.

The waiver examination and an interview is given at 12:00 p.m. on the first day of class each semester. Application forms must be secured from the Art and Design Office prior to the examination date. At that time the student is given further information about the waiver.

## Art

### Bachelor of Fine Arts

#### Specific Admission Requirements

In addition to completing **Foundations** courses students must pass the **Candidacy Review for BFA in Art**. A selection of work from **Foundation** and **Studio Core** areas is to be submitted to a committee of the art studio faculty for review during the first semester of the student's junior year. Student records will be encumbered at sixty hours if the student has not yet filed a degree program. It is the student's responsibility to apply for the review which is held during the fall and spring semesters. ART 499, Senior Exhibition, may not be taken unless the Candidacy Review has been completed.

**Transfer students** with more than sixty hours completed must apply for candidacy during their first semester.

- General Education Requirements - see "Academic Programs and Requirements" section of catalog
- Major Requirements (75-78 hours)
  - Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
  - Studio Core (15 hours): ART 225(3), 235(3), 242(3), 255(3); ART 212(3) or 223(3)
  - Art History (15 hours): ART 271(3), 272(3); ART 480(3) or 484(3); ART 273(3) or 274(3), and 3 hours art history elective
  - Studio Emphasis (12-15 hours): a minimum of 12 but no more than 15 upper-division (300 level or above) hours in one of the following studio areas:
    - Ceramics:** (required) ART 312(3), 313(3-6); (elective) ART 314(3-12), 336(3-9), 399(3-6)
    - Computer Animation:** (required) ART 330(3), 430(3-9), 431(3); (elective) ART 399(3-6)
    - Drawing:** (required) ART 315(3-6), 316(3-9); (elective) ART 399(3-6)
    - Metals/Jewelry:** (required) ART 323(3-9), 324(3-9); (elective) ART 399(3-6)
    - Painting:** (required) ART 325(3-9); (elective) ART 326(3-9), ART 399(3-6)
    - Photography:** ART 354(3-9), 355(3-9), 356(3-9), 357(3-9), 358(3-9), 399(3-6), 407(1-6), 455(3-6)
    - Printmaking:** (required) ART 342(3-9); (elective) ART 343(3-9), 399(3-6)
    - Sculpture:** (required) ART 335(3-9); (elective) ART 336(3-9), 399(3-6)
- Senior Exhibition (3 hours): ART 499(3)  
Presentation of work from areas where the majority of art course work has been taken. This work must evidence the attainment of

a level of conceptual and technical maturity judged by a committee of the art studio faculty to meet qualitative standards required for the granting of the BFA in Art.

- Art and Design Electives: additional courses in studio, design, art history or aesthetics (PHI 320), 9 hours of which must be at or above the 300 level, chosen with approval of advisor, bringing the **total number of hours in Art and Design to no fewer than 75**. Students with an emphasis in computer animation may use MED 365 towards the fulfillment of this requirement.
- General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### Art and Design (Non-Comprehensive)

#### Bachelor of Arts

- General Education Requirements - see "Academic Programs and Requirements" section of catalog
- Major Requirements (36 hours)
  - Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
  - Art History (9 hours): ART 271(3) or 272(3), and 6 hours of art history electives
  - Studio Emphasis: a minimum of 6 hours in one of the following studio areas: painting, printmaking, photography, sculpture, ceramics, metals/jewelry or digital imaging
  - Art and Design Electives: additional courses in studio, design or art history, chosen with approval of advisor bringing the **total number of hours in Art and Design to no fewer than 36**
- Minor Required
- Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### Art and Design (Comprehensive)

#### Bachelor of Science in Education (Certifiable grades K-12)

#### Specific Admission Requirements

In addition to completing **Foundations** courses students must have a **combined GPA** (Missouri State and transfer combined) **of at least 2.50, GPA in Art and Design of 2.50, "C" or higher in ART 360**. Application for admission to the degree program may be made after completion of thirty hours and must be made **before** sixty hours have been completed or student records will be encumbered. In addition to completing the specific Art and Design requirements, students must also fulfill all the admission requirements as listed under the Teacher Education Program in the Academic Programs and Requirements section of this catalog.

- General Education Requirements - see "Academic Programs and Requirements" section of the catalog and Specific General Education Requirement: ART 271(3) or 274(3)
- Major Requirements (60 hours)
  - Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
  - Art History (9 hours): ART 272(3), 273(3), and 480(3) or 484(3)
  - Studio Art (27 hours):
    - ART 212(3), 225(3), 235(3), 242(3) or 243(3), 253(3), 255(3)
    - 3 courses from: ART 210(3), 312(3), 315(3), 323(3), 325(3), 335(3), 342(3), DES 300(3), PHI 320(3); or two courses plus ART 354(3) or 355(3) or 356(3)
  - Art Education (12 hours): ART 360(3), 366(3), 460(3), 466(3)
- Professional Education courses: ART 401(3), 490(5-6), 491(5-6) and see "Academic Programs and Requirements/Secondary Education" section of catalog

- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### Art and Design (Non-Comprehensive)

#### Bachelor of Science in Education (Certifiable grades 9-12)

##### Specific Admission Requirements

In addition to completing **Foundations** courses students must have a **combined GPA** (Missouri State and transfer combined) **of at least 2.50, GPA in Art and Design of 2.50, "C" or higher in ART 360.** Application for admission to the degree program may be made after completion of thirty hours and must be made *before* sixty hours have been completed or student records will be encumbered. In addition to completing the specific Art and Design requirements, students must also fulfill all the admission requirements as listed under the Teacher Education Program in the Academic Programs and Requirements section of this catalog.

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog and Specific General Education Requirement: ART 274(3)
- B. Major Requirements (60 hours)
  - 1. Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
  - 2. Art History (6 hours): Select two courses from: ART 271(3), 272(3), 484(3)
  - 3. Studio Art (24 hours): ART 210(3), 212(3), 225(3), 235(3), 242(3) or 243(3), 253(3), 255(3) or DES 300(3)
  - 4. Art Education (9 hours): ART 360(3), 460(3), 466(3)
  - 5. Art and Design Electives (9 hours): additional courses in studio, design or art history, chosen with approval of advisor, to bring the **total number of hours in Art and Design to no fewer than 60.**
- C. Professional Education courses: ART 401(3), 490 (5-6), 491 (5-6) and see Academic Programs and Requirements/Secondary Education section of catalog
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### Art History (Non-Comprehensive)

#### Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (39 hours)

- 1. Core Courses (18 hours): ART 271(3), 272(3), 273(3), 274(3), ART 492(3); and any 100 or 200 level studio course (3)
- 2. In consultation with an advisor, complete 21 hours in at least four of the following areas of art history:
  - a. Ancient/Medieval Art: ART 472(3), 474(3)
  - b. Renaissance/Baroque: ART 475(3), 478(3)
  - c. Modern/Postmodern: ART 381(3), 479(3), 480(3), 482(3), 484(3)
  - d. Non-Western Cultures: ART 374(3), 382(3), 385(3), 386(3), 485(3)
  - e. Diverse Perspectives: ART 377(3), 378(3), 387(3)  
*With advisor's approval, ART 496(3), Special Topics in Art History, may substitute for a course in one of the areas.*
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### Design

#### Bachelor of Fine Arts

##### Specific Admission Requirements

In addition to completing **Foundations** courses students must have a **GPA of 2.50 or higher in the major** and an **Missouri State cumulative GPA of at least 2.50** to pass the **Advisory Review** administered by the Design Program Coordinator in the spring of the freshman year for provisional admission to the program.

In the spring of the sophomore year students must apply for **Candidacy Review**. A committee of Design faculty will administer this review. A student must submit a portfolio consisting of 12-20 pieces selected from **Foundations and Design Core** courses including: ART 115 or 215, ART 202, DES 202, 210, 301, 303 and may include additional work chosen with faculty advisement. Students must choose an option at this time: **Graphic Design, Illustration**, or a dual emphasis. This is a competitive program—if students are not accepted into the program they may consider repeating courses and/or doing additional work and reapplying for admission the following spring, but acceptance is not guaranteed. **Students must have a GPA of 3.00 or higher in the major and an Missouri State cumulative GPA of at least 2.50 to be admitted to candidacy.**

**Transfer students** choosing the BFA in Design must apply for admission to the program. The application with portfolio (slides acceptable) and transcript must be made to the Design Program Coordinator in the spring semester for admission to the program in the fall. (Students are not encouraged to apply for spring admission.) The Design Program Coordinator in consultation with the Design faculty will review the application with portfolio and transcript. Students must receive permission from the Design Coordinator before enrolling in any Design course. **To be admitted to the Design Program transfer students must have a GPA of 2.50 or higher in the major if transferring 12 hours or less in the major, or a GPA of 3.00 or higher in the major if transferring more than 12 hours in the major. All transfer students must have a combined (Missouri State and transfer) GPA of at least 2.50 to be admitted to the program.**

**Design Internships** (DES 499) for credit may be arranged through the Office of Cooperative Education, and may be used to fulfill art or design electives by design majors. Permission to take an internship for credit must be obtained before the work is done. For more information on how to enroll in DES 499 contact the Design Program Coordinator.

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (75 hours)
  - 1. Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)

2. Design Core (15 hours): ART 202(3), DES 202(3), 210(3), 301(3), 303(3)
3. Art History (15 hours): ART 271(3), 272(3), 377(3), 480(3), or 484(3), and ART 273(3) or 274(3)
4. Studio Art (12 hours): ART 225(3), 235(3), 255(3), 315(3)
5. Professional Design Practicum (3 hours): DES 490(3)
6. Complete 18 hours in either Graphic Design or Illustration
  - a. **Graphic Design** (18 hours)
    1. DES 330(3), 331(3), 332(3), 340(3), 430(3)
    2. 3 hours from: ART electives, DES electives, PHI 320(3)
  - b. **Illustration** (18 hours):
    1. DES 250(3), 350(3), 452(3)
    2. 6 hours chosen with advisement from one of the following areas: Photography ART 354(3), 355(3), 356(3), 357(3), 358(3); Drawing and Painting ART 315(3), 316(3), 325(3), 326(3); Printmaking ART 242(3), 243(3), 342(3), 343(3); Digital Imaging ART 310(3), 410(3); Computer Animation ART 230(3), 330(3), 430(3); Design DES 330(3), 331(3), 332(3), 340(3), 345(3), 430(3), 440(3), 497(3), 499(3)
    3. 3 hours from: ART electives, DES electives, PHI 320(3)
- C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Electronic Arts (Non-Comprehensive) Bachelor of Science

### Admission Requirements

1. Preadmission Core Courses: complete 9 hours with a GPA of 3.00 or higher from the following Electronic Arts preadmission core courses before applying to the program: ART 110(3) or 100(3); MED 290(3), 365(3); MUS 216(3). Core courses in the student's chosen option must be completed before applying.
2. Initial Portfolio Review: Portfolio must include a minimum of two and a maximum of three examples of audio, video, multimedia, and/or computer animation work, with at least one example coming from a core course. Specific guidelines are required for portfolios. See advisor or the Electronic Arts Coordinator for details.

### Program Requirements

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (37 hours)
  1. Core Courses: ART 110(3) or 100(3), 300(3); MUS 216(3); MED 290(3), 365(3); ART 498(4) or MED 498(4)
  2. Choose one of the following options (18 hours):
    - a. **Audio Studies:** MED 461(3), 561(3); MUS 316(3), 529(3); select 6 hours with advisor approval: MED 382(3), 495(1-6); MUS 100(2), 111(2), 137(1), 512(3); THE 558(3)
    - b. **Computer Animation Studies:** ART 230(3); MED 465(3); select 12 hours with advisor approval: ART 330(3), 430(3-9), 431(3), 399(3-6)
    - c. **Multimedia Studies:** MED 390(3), 490(3); ART 210(3); DES 202(3); select 6 hours with advisor approval: ART 230(3); MED 465(3), 492(3), 495(1-6). *DES 202 should be taken only after successful completion of initial portfolio review.*
    - d. **Video Studies:** ART 230(3); MED 465(3); select 12 hours with advisor approval: MED 390(3), 492(3), 495(1-3), 562(3), 565(3), 583(3)
- C. Minor Required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Minors

### Art

#### Bachelor of Arts

- A. ART 100(3), 101(3), 115(3)
- B. Additional 9 hours art and/or design electives should be chosen with advisement to bring the total number of hours in Art and Design to no fewer than 18.

### Art

#### Bachelor of Science

- A. ART 100(3), 101(3), 115(3)
- B. Additional 12 hours art and/or design electives should be chosen with advisement to bring the total number of hours in Art and Design to no fewer than 21.

### Art

#### Bachelor of Science in Education (Certifiable grades K-9)

- A. ART 100(3), 101(3), 115(3), 212(3), 225(3), 235(3), 253(3), 271(3) or 272(3), and 366(3)
- B. One course from the following: ART 242(3), 243(3), 255(3) or DES 300(3)
- C. PSY 331(3)
- D. In order to meet Missouri state teacher certification requirements, all candidates for the Bachelor of Science in Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area which includes all courses required for the minor.

### Art History

#### Bachelor of Arts

#### Bachelor of Fine Arts

- A. ART 271(3) or 272(3), and 273(3) or 274(3)
- B. Additional 12 hours art history electives should be chosen with advisement by an art history faculty member to bring the total number of hours in Art and Design to no fewer than 18.

### Art History

#### Bachelor of Science

- A. ART 271(3) or 272(3), and 273(3) or 274(3)
- B. Additional 15 hours art history electives should be chosen with advisement by an art history faculty member to bring the total number of hours in Art and Design to no fewer than 21.

### Art History

#### Bachelor of Science in Education (Non-certifiable)

- A. ART 271(3), 272(3), 273(3) and 274(3)
- B. Additional 9 hours art history electives should be chosen with advisement by an art history faculty member to bring the total number of hours in Art and Design to no fewer than 21.

### Design

#### Bachelor of Science

- A. ART 100(3), 101(3), 115(3), 202(3), 255(3), DES 300(3)
- B. ART 210(3) or DES 210(3)

## Graduate Program

The Master of Science in Education degree (secondary education major) offers an area of emphasis in art. See the Graduate Catalog for details.

## Art Courses

### ART 98 Topics in Art and Design. 1-2, D.

A variable content course consisting of lectures and/or studio projects. May not be used to fulfill a major requirement in the Art and Design Department. Students should consult the registration schedule of classes to determine the specific topic offered. May be repeated to a total of 6 hours.

### ART 100 Two-Dimensional Design. 3(0-6) F,S.

Elements and principles of two-dimensional design. Experience with a variety of media and subject matter.

### ART 101 Three-Dimensional Design. 3(0-6) F,S.

Prerequisite: ART 100. Elements and principles of three dimensional design. Experience with a variety of media and subject matter.

### ART 110 Two-Dimensional Design for Digital Media. 3(0-6) S.

Elements and principles of two-dimensional design. Computers will be used extensively in this class. Will not count toward the BA in Art or Design, BFA in Art or Design, or the BS Ed in Art and Design.

### ART 115 Drawing I. 3(0-6) F,S.

Basic elements and principles of drawing. A problematic approach to the process of seeing and drawing—through an applied investigation of natural and man-made forms.

### ART 200 Art in Context. 3(3-0) F,S.

This course introduces the visual arts in the context of history and culture. It involves analysis of art works and introduces terminology and concepts necessary for understanding art within various cultural matrices. Does not count toward BA or BSED in Art and Design or BFA in Art or Design.

### ART 202 Intermediate Design. 3(0-6) F,S.

Prerequisite: ART 100 and ART 101 and ART 115. A presentation in greater depth of major theories of art and design with emphasis on color theory and systems. Structured studio design problems applying and investigating such theories.

### ART 209 Introduction to the Visual Arts. 3(0-6) F,S,Su.

Prerequisite: ENG 110. This course will incorporate studio experiences, lecture and discussion in the exploration of the fundamental elements within the visual arts. Will not count for degree requirements towards a BA or BSED in Art & Design or BFA in Art or Design.

### ART 210 Introduction to Digital Imaging. 3(0-6) F,S.

Prerequisite: ART 100 or ART 110; and CIS 101 or CSC 101 or CSC 111. Understanding of the principles, methods, techniques and vocabulary of the most widely used digital imaging processes with an emphasis on visual problem solving.

### ART 212 Ceramics I. 3(0-6) F,S.

An introduction to handbuilding, wheel and firing processes, including raku. Fundamentals of ceramic materials, equipment, and preparation of clay and glazes.

### ART 215 Drawing II. 3(0-6) F,S.

Prerequisite: ART 115. Continuation of drawing fundamentals in greater depth and exploration of additional media.

### ART 223 Metals-Jewelry I. 3(0-6), F,S.

Prerequisite: ART 101. Introduction to non-ferrous metal fabrication processes including piercing, soldering and finishing. Fundamentals of tools, materials, and jewelry concepts.

### ART 225 Painting I. 3(0-6) F,S.

Prerequisite: ART 100 and ART 115 and ART 215. Basic investigation of materials, techniques, and visual concepts important to the process of painting. Emphasis on understanding visual elements through work which includes study from the still-life and model.

### ART 226 Watercolor for the Non-Art Major. 3(0-6) F,S.

To acquaint the student with the essential characteristics of the materials used in watercolor painting and to familiarize the student with the techniques used in applying transparent pigment to various prepared surfaces. This course will not fulfill the requirements for a major or a minor in art.

### ART 230 Computer Animation I. 3(0-6) F,S.

Prerequisite: ART 100 or ART 110; and CIS 101 or CSC 101 or CSC 111. Exploration of visual expression through the use of sequential images. Experience with a wide range of digital processes.

### ART 235 Sculpture I. 3(0-6) F,S.

Prerequisite: ART 101. Development of fundamental and personal concepts concerning subject matter as related to sculpture. Experience with a wide range of media and techniques.

### ART 242 Printmaking I. 3(0-6) F,S.

Prerequisite: ART 100 and ART 115 and ART 215. Beginning problems in printmaking.

### ART 243 Relief Print. 3(0-6) F.

Prerequisite: ART 215. An exploration of the relief processes through the mediums of linocut and woodcut.

### ART 253 Fibers. 3(0-6) F.

Prerequisite: ART 100. Introduction to two and three-dimensional fiber techniques and structures. Emphasis will be placed on using a variety of techniques in the execution of assigned problems. Experimental use of materials will be encouraged. May be repeated to a total of 9 hours.

### ART 255 Photography I. 3(0-6) F,S.

Prerequisite: ART 100. Basic course in black and white photography. Includes camera controls and darkroom work. Photography as visual expression.

### ART 270 Writing in Art History. 1(1-0) S.

Prerequisite: ENG 110. Must be taken currently with ART 271 or 272 or 273 or 274. A composition class designed to provide training and experience in writing within the discipline of Art History.

### ART 271 (371) History of Western Art I. 3(3-0) F,S.

Prerequisite: ENG 110. A survey of Western art and the cultures that produced it from Prehistory through the Gothic period.

### ART 272 (372) History of Western Art II. 3(3-0) F,S.

Prerequisite: ENG 110. A survey of Western art and the cultures that produced it from the Gothic Period to the Second World War.

### ART 273 (383) Survey of the Art of Africa, Oceania, and the Americas. 3(3-0) F,S.

Prerequisite: ENG 110. A survey of the art and architecture produced by the cultures of Africa, Oceania, and the Americas.

### ART 274 (384) Survey of Asian Art. 3(3-0) F,S.

Prerequisite: ENG 110. A survey of the art objects and the cultures which produced them, primarily those of India, China, and Japan.

### ART 300 Fundamentals of Collaboration in Electronic Arts. 3(0-6) F,S.

Prerequisite: permission of the instructor. Exploration of aesthetic and communication issues involved in producing work in interdisciplinary electronic media.

### ART 310 Digital Imaging. 3(0-6) S.

Prerequisite: ART 115 and ART 210. This course will focus on using the computer as a creative tool. Emphasis will be placed on inter-media applications of digital processes. May be repeated to a total of 9 hours.

### ART 312 Ceramics II. 3(0-6) F,S.

Prerequisite: ART 101 and ART 212. Problems of greater complexity involving handbuilt and thrown forms and surface enhancement. Greater exploration of materials and processes including basic glaze chemistry and firing operations.

### ART 313 Ceramics III. 3(0-6) F,S.

Prerequisite: ART 312. Advanced problems associated with clay form and surface treatment. Evidence of expanded individuality and sensitivity expected. Greater studio and firing responsibilities. May be repeated to a total of 6 hours.

### ART 314 Special Topics in Ceramics. 3(0-6) D.

Prerequisite: ART 212. Specialized studies in ceramics to include subjects in such areas as raku, salt firing, kiln building, glaze formulations, handbuilding, etc. Subject of course to be selected by the instructor. May be repeated to a total of 12 hours when course content changes. Variable Content Course.

### ART 315 Drawing III. 3(0-6) F,S.

Prerequisite: ART 215. Problems of greater visual and conceptual complexity. More emphasis given to development of individual qualities. May be repeated to a total of 6 hours.

### ART 316 Life Drawing. 3(0-6) F,S.

Prerequisite: ART 215. Drawing the human figure with emphasis on anatomy, structure, and form. May be repeated to a total of 9 hours.

### ART 323 Jewelry and Metalsmithing. 3(0-6) F,S.

Prerequisite: ART 223. Further exploration of metal fabrication processes. Introduction to jewelry scale casting and to silversmithing techniques. May be repeated to a total of 9 hours.

**ART 324 Jewelry, Metals and Enameling.** 3(0-6) F,S.

Prerequisite: ART 223. Advanced problems in metals. Includes enameling and other metals techniques. Emphasis on individual problem solving. May be repeated to a total of 9 hours.

**ART 325 Painting II.** 3(0-6) F,S.

Prerequisite: ART 225. Problems of greater visual and conceptual complexity. More emphasis given to development of individual qualities. May be repeated to a total of 9 hours.

**ART 326 Painting with Water-Based Media.** 3(0-6) F,S.

Prerequisite: ART 225. A course which introduces and explores one or more water-based media such as watercolor, gouache, casein and acrylic. Media emphasis to be determined by the instructor. May be repeated to a total of 9 hours.

**ART 330 Computer Animation II.** 3(0-6) S.

Prerequisite: ART 230. Further exploration of visual expression in animation. Advanced techniques in the manipulating of forms and surfaces within the digital environment.

**ART 335 Sculpture II.** 3(0-6) F,S.

Prerequisite: ART 235. Individual problems and concepts in organizing mass and space utilizing a range of techniques and media, including metal casting and welding, carving, plastics, and fibers. May be repeated to a total of 9 hours.

**ART 336 Figure Modeling.** 3(0-6) F.

Prerequisite: ART 100 and ART 101 and ART 215. Modeling the human figure with emphasis on anatomy, structure and form by exploring the usage of clay, wax or plaster. May be repeated to a total of 9 hours.

**ART 342 Printmaking II.** 3(0-6) F,S.

Prerequisite: ART 242. Advanced problems in printmaking. May be repeated to a total of 9 hours.

**ART 343 Lithography.** 3(0-6) F.

Prerequisite: ART 242. Exploration of stone lithography as an expressive means toward creating hand pulled prints. May be repeated for a total of 9 hours.

**ART 354 Medium Format Photography.** 3(0-6) F,S.

Prerequisite: ART 255. An investigation of technical and aesthetic issues of medium format photography. Emphasis on the development of expressive photographic images. May be repeated to a total of 9 hours.

**ART 355 Large Format Photography.** 3(0-6) F,S.

Prerequisite: Art 255. An investigation of technical and aesthetic issues of large format photography. Emphasis on the development of expressive photographic images. May be repeated to a total of 9 hours.

**ART 356 Color Photography.** 3(0-6) F,S.

Prerequisite: ART 255. An investigation of technical and aesthetic issues of color photography. Emphasis on the development of expressive photographic images. May be repeated to a total of 9 hours.

**ART 357 Special Topics in Photography.** 3(0-6) D.

Prerequisite: ART 355 or ART 356. Alternative photographic processes to broaden the photographic experience. Subject of course to be selected by the instructor. May be repeated to a total of 9 hours when course content changes. Variable Content Course.

**ART 358 Studio Photography.** 3(0-6) F.

Prerequisite: ART 354. An investigation of technical and aesthetic issues of studio photography with special emphasis on the portrait and the still-life. May be repeated to a total of 9 hours.

**ART 360 Introduction to Art Education.** 3(2-3) S.

Prerequisite: ART 100 and ART 101 and ART 215. Introduction to the field of art education and the role of visual arts in education; survey of issues, theories, and trends; review of content, materials, and approaches through discussion, research, studio experiences, critical writing, observation of classes, and analysis of models for teaching art in elementary and secondary schools.

**ART 366 Elementary Art Education.** 3(2-3) F.

Prerequisite: ART 360. Overview of artistic growth of children; survey of philosophies, issues, methods, materials, resources, processes, and strategies for teaching art and integrating it into the school curriculum; unit and lesson planning, assessment, and evaluation. Lecture, discussion, studio, and classroom observations. Credited only for B.S. in Education.

**ART 370 Writing II: Writing for the Visual Arts.** 3(3-0) F,S.

Prerequisite: major or minor in Art or Design, ENG 110, and completion of 30 hours. Students are encouraged to be concurrently enrolled in an

art history course. A composition course designed to provide training and experience in writing within the disciplines of the visual arts.

**ART 374 Art of India.** 3(3-0) D.

Prerequisite: ART 274. Survey of the major art and architecture monuments of India and the cultural context from which they were produced.

**ART 377 History of Graphic and Applied Design.** 3(3-0) S.

Prerequisite: ART 271 or ART 272 or ART 274. An historical and critical examination of design from its beginnings to the present with emphasis on communication design in the industrial and post-industrial periods. Will not count as Art History elective for the BFA in Art.

**ART 378 Women and Art.** 3(3-0) D.

Prerequisite: ART 271 or ART 272. The course examines women's roles and contributions in the history of art and culture. May be counted toward the Gender Studies minor.

**ART 381 (481) The Art of the United States of America.** 3(3-0) D.

Prerequisite: ART 272. The art of the United States from its pre-Revolutionary days to the present.

**ART 382 A Survey of Islamic Art.** 3(3-0) D.

Prerequisite: ENG 110. A survey of the art produced in the lands under the influence of the Islamic religion.

**ART 385 Art of the Americas.** 3(3-0) D.

Prerequisite: ART 273. A survey of the art and architecture of North America, Mesoamerica, Central America, and South America and the cultures that produced it.

**ART 386 Art of Africa.** 3(3-0) D.

Prerequisite: ART 273. A survey of the art and architecture of Africa and the cultures that produced it.

**ART 387 (482) History of Photography.** 3(3-0) D.

Prerequisite: ART 272. The development and history of photography as an artistic medium.

**ART 390 Research Methods in Art History.** 2(2-0) D.

Prerequisite: ART 270. The student will be involved with the systematic processes of observation, description, contextual development, analysis and argumentation upon which art historical research is based.

**ART 399 Individual Instruction.** 3(0-6) F,S.

Prerequisite: senior or post-baccalaureate standing; 12 sequential hours in same studio area and permission of instructor. Independent work on special projects approved by studio advisor. Repeatable to a total of 6 hours in any studio area.

**ART 401 (SEC) Teaching of Art.** 3(2-3) S.

Prerequisite: ART 366 and EDC 350; and admitted to teacher education program. Artistic and aesthetic growth of adolescents; survey of philosophies, issues, methods, materials, resources, processes, and strategies for teaching art in secondary schools; observation; unit and lesson planning; microteaching. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take ART 490 or ART 491. May not be taken Pass/Not Pass.

**ART 407 Art Internship.** 1-3(0-6) D.

Prerequisite: permission of instructor. Student will complete actual job assignments while working for outside organizations under the supervision of an art faculty member. May be repeated to a total of 6 hours. Graded Pass/Not Pass only.

**ART 410 Special Topics in Digital Imaging.** 3(0-6) D.

Prerequisite: ART 310. Advanced problems involving digital imaging. May be repeated to a total of 9 hours. Variable Content Course.

**ART 425 Painting III.** 3(0-6) F,S.

Prerequisite: ART 325. An advanced-level course utilizing a combination of structured and self-directed approaches. Students will continue to develop formal skills and will be encouraged to explore issues of content and visual aesthetics, while developing an individual point-of-view.

**ART 430 Computer Animation III.** 3(0-6) F,S.

Prerequisite: ART 330 and permission of the instructor. Priority will be given to those students who have successfully completed the Computer Animation Emphasis Candidacy Review for the BFA in Art or the BS in Electronic Arts. Individual problems in animation and advanced techniques. Emphasis will be placed on the development of a personal, narrative point of view. May be repeated to a total of 9 hours.



**ART 431 (411) Professional Practices in Computer Animation.** 3(0-6) F.

Prerequisite: ART 430. Lecture, discussion and assignments for students seeking professional careers in computer animation. Presentation skills will be emphasized. Students will be required to write and perform research.

**ART 455 Advanced Photography Seminar.** 3(0-6) F,S.

Prerequisite: 12 hours in emphasis and permission of the instructor. Pursuit of advanced photographic projects. Emphasis on development of personal vision. A study of historical and contemporary critical issues in photography. Must be taken at least once with Art 499. May be repeated to a total of 6 hours.

**ART 460 Critical Studies in Art Education.** 3(2-3) F.

Prerequisite: ART 366 and ART 401. Review of theories and issues concerning the study of aesthetics, art history, and art criticism in art education; survey of methods; observation of various models; generation of materials, resources, and strategies for implementation; teaching experiences utilizing strategies.

**ART 466 Art Education Practicum.** 3(2-3) F.

Prerequisite: 30 hours of art and ART 366 and ART 401. Observation and classroom teaching experiences; writing unit and lesson plans; classroom motivation, management, and discipline; evaluation and exhibition of student art work; ordering supplies and equipment.

**ART 469 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate Praxis II exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**ART 472 Medieval Art.** 3(3-0) D.

Prerequisite: ART 271. Painting, sculpture, and architecture of Europe from the fourth century through the fourteenth century. The course emphasizes the development of a distinctly European art and culture.

**ART 474 Classical Art.** 3(3-0) D.

Prerequisite: ART 271. A survey of the art and architecture of Greece and Rome including the art of Crete and Mycenae.

**ART 475 Art of the Renaissance.** 3(3-0) D.

Prerequisite: ART 272. A survey of painting, sculpture, and architecture in Europe from 1300-1575.

**ART 478 Baroque Art.** 3(3-0) D.

Prerequisite: ART 272. The major figures and developments in art and architecture from Mannerism through the Rococo in Italy and Northern Europe.

**ART 479 19th Century Art.** 3(3-0) D.

Prerequisite: ART 272. The major figures and developments in art and architecture from Neo-Classicism through the end of the century in Europe.

**ART 480 Modern Art.** 3(3-0) F,S.

Prerequisite: ART 272. A study of the objects, artists, ideas, and movements which are a part of the modern and late modern tradition from the mid 19th Century through the period following the Second World War.

**ART 483 (376) Modern Architecture and Urban Forms.** 3(3-0) D.

A survey of the historical, social, political, economic and technological forces that have shaped the forms and styles of architecture and cities from the time of the Industrial Revolution to the present.

**ART 484 (380) Contemporary Art.** 3(3-0) D.

Prerequisite: ART 272. This course will emphasize the issues raised during the transition to "Post-Modern" culture in the last decades of the 20th

Century and the beginning years of the 21st Century. The approach and the assignments will employ theoretical and critical as well as historical thinking.

**ART 485 Art of Mesoamerica.** 3(3-0) D.

Prerequisite: ART 273. The art and architecture of Mesoamerica and the cultures that produced it.

**ART 490 Supervised Teaching of Art and Design (Secondary).** 5-6, F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio, which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both SEC 493 and ART 490.

**ART 491 Supervised Teaching of Art and Design (Elementary).** 5-6, F,S.

Prerequisite: ART 490. Student observes then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Elementary). Students will be required to complete the work on the Professional Preparation Portfolio, which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both ELE 496 and ART 491.

**ART 492 Art History Methodology.** 3(3-0) D.

Prerequisite: ART 390 and 15 hours of art history. This is a critical study of the various methodologies used in the discipline of art history. This is a capstone course intended to prepare students planning to pursue advanced study in art history.

**ART 494 (396) Independent Study in Art History.** 3(3-0) D.

Prerequisite: ART 271 and ART 272; and ART 273 or ART 274; and/or permission of instructor. Individual projects and special problems in Art History. May be repeated to a total of 6 hours.

**ART 495 Internship in Art History.** 1-3(0-6) D.

Prerequisite: permission of instructor. Students will complete various duties as assigned with a variety of art history-related organizations. These areas include local museums, galleries, and/or visual resource-media collections. May be repeated to a total of 6 hours. Graded Pass/Not Pass only.

**ART 496 (397) Special Topics in Art History.** 3(3-0) D.

Prerequisite: permission of instructor. The specific topics will change from term to term depending upon the interest of students and professors, e.g. German Expressionism, History of Photography, The School of Paris, Cubism and its Progeny, Pre-Columbian Art in North America. May be repeated to a total of 6 hours.

**ART 497(319) Special Topics in Art and Design.** 3(0-6) D.

Prerequisite: ART 100 and ART 101 and permission of instructor. Advanced problems involving the application of art and design fundamentals in either two or three dimensional projects will be explored. May be repeated to a total of 9 hours when course content changes. Variable Content Course.

**ART 498 Senior Project in Electronic Arts.** 2(1-2) F,S.

Prerequisite: permission of instructor. Admission to this course is contingent upon successful completion of the Electronic Arts Junior Portfolio review. Under advisement from faculty, students will form production teams consisting of video production, computer animation, and audio production students. Each team will produce a broadcast-quality audio or video project which may assume various forms, such as a music video, a computer animation, or a short dramatic video. This course must be repeated in sequence for a total of four hours. The first two hours will be spent in pre-production preparations for the approved senior project. The second two hours will involve production and post-production of the approved project. If a student drops ART 498 during the second semester, she/he will have to join a new senior project team



and repeat the first semester (pre-production phase) for a replacement grade before completing the final two hours of the course.

**ART 499 Senior Exhibition.** 3(2-2) F,S.

Prerequisite: senior standing and completion of B.F.A. Candidacy Review and studio advisor's approval. Must be taken concurrently with upper division course in area of emphasis. Presentation of work from area where the majority of art course work has been taken. This work must evidence the attainment of a level of conceptual and technical maturity judged by a committee of the art studio faculty to meet qualitative standards required for the granting of the B.F.A. degree in art. May not be taken Pass/Not Pass.

**ART 590 Art Studio Workshops.** 2-3 F,S.

Focused study in specific studio area, emphasis on upgrading skills and extending understanding of aesthetic and visual qualities. May be repeated to a total of 5 hours. Variable Content Course.

**ART 598 Seminar in Art Education.** 1-3 Su.

In-depth study of specific topics and/or interaction with leaders in the fields of aesthetics, art criticism, art history, art making, and art education. May be repeated to a total of 6 hours. Variable Content Course.

*The following courses are open only to graduate students.*

**ART 600 Historical Perspectives in Art Education.** 3(3-0) F.

A history of ideas in art education and the individuals who have made significant contributions to the field; overview of beliefs, values, and practices and the role of art and art education in society.

**ART 660 Contemporary Issues and Current Trends in Art Education.** 3(3-0) S.

Critical examination of current issues and theories concerning the teaching of art; analysis of relationships between historical purposes and current practice; interpretation and evaluation of recent research.

**ART 699 Independent Study.** 3(0-6) F,S.

Prerequisite: portfolio review of work in selected studio area. Independent work in one studio area, directed and critiqued by studio advisor. May be repeated to a total of 9 hours.

## Design Courses

**DES 202(302) Graphic Design Systems.** 3(0-6) F.

Prerequisite: Missouri State GPA of at least 2.50 and a GPA of 2.50 or higher in the major and ART 100 and ART 101 and ART 215. Abstract and theoretical applications of design systems including grid information, various symmetries, and printed page formats.

**DES 210 Introduction to Computer Graphic Design.** 3(0-6) F.

Prerequisite: Missouri State GPA of at least 2.50 and a GPA of 2.50 or higher in the major and ART 100 and ART 101 and ART 215; and either CIS 101 or CSC 101 or CSC 111. An introduction to methods of image creation and visual communication via available computer graphic software packages. Emphasis will be placed on the use of the computer as a production tool for graphic designers.

**DES 250 Materials and Techniques for Illustration.** 3(0-6) F.

Prerequisite: Missouri State GPA of at least 2.50 and a GPA of 3.00 or higher in the major; and ART 100 and ART 101 and ART 215 and admitted to BFA Design Illustration or dual emphasis. A study of methods and materials used in traditional illustration.

**DES 300 Graphics for the Non-Design Major.** 3(0-6) F,S. Prerequisite: ART 100. An investigation of how basic design principles relate to graphic communication as well as the study of processes used in preparing designs for reproduction. The student will apply this knowledge in a number of assigned design problems. This course will not apply toward the B.F.A. in design degree.

**DES 301 Graphic Production.** 3(0-6) S.

Prerequisite: C or better in both DES 202 and DES 210 and concurrent enrollment in either ART 202 or ART 255. The study of materials and mechanical processes required for single, multiple, and four-color print production.

**DES 303(201) Basic Typography.** 3(0-6) S.

Prerequisite: C or better in both DES 202 and DES 210 and concurrent enrollment in either ART 202 or ART 255. Introduction to basic

typographic forms and their use in visual communication. The application of design principles to the setting of type. Visual experiments with typographic elements.

**DES 330 Communication Design/Methodology.** 3(0-6) F.

Prerequisite: C or better in both DES 301 and DES 303 and admitted to BFA Design Graphic Design or dual emphasis degree program. Investigation of the design process and its methodology through different forms of visual communication. Development of students' ability to present visually different ideas or information.

**DES 331 Advanced Typography.** 3(0-6) F.

Prerequisite: C or better in both DES 301 and DES 303 and admitted to BFA Design Graphic Design or dual emphasis degree program. Application of typography in different fields of visual communication and publication design. Exploration of the relationship between meaning, content, and typographic layout.

**DES 332 Image Design.** 3(0-6) S.

Prerequisite: either ART 315 or ART 225 (or concurrent enrollment in ART 315 or ART 225) and C or better in both DES 330 and DES 331. Production of graphic images in relation to written information and/or specific subjects, ideas or messages.

**DES 340 Web Design for Design Majors.** 3(0-6) S.

Prerequisite: DES 330. Basic knowledge of web design using HTML, including information architecture and image optimization for the web.

**DES 345 Basic New Media Design.** 3(0-6) D.

Prerequisite: DES 210 or ART 210. Course will focus on basic knowledge of new media design and production. The course covers interactive interface design.

**DES 350 Illustration.** 3(0-6) S.

Prerequisite: ART 315 (or concurrent enrollment in ART 315) and C or better in DES 250 and admitted to BFA Design Illustration or dual emphasis degree program. The study of various approaches and techniques of illustration for print and publication, including an introduction to digital illustration.

**DES 430 Advanced Graphics.** 3(0-6) F.

Prerequisite: ART 377; and either ART 315 or ART 225 (or concurrent enrollment in ART 315 or ART 225) and C or better in DES 332. The completion of advanced projects in graphic communication, including corporate and product identity, public service and editorial design.

**DES 440 Advanced Web Design for Design Majors.** 3(0-6) F.

Prerequisite: DES 340. Advanced skills in web design particularly focusing on interactive flash websites with multimedia content.

**DES 452 Intermediate Illustration.** 3(0-6) F.

Prerequisite: ART 377 and ART 225 (or concurrent enrollment in ART 225) and C or better in DES 350. The study of illustration as a communicative tool. Students will be assigned problems using various media.

**DES 490 Professional Design Practicum.** 3(0-6) S.

Prerequisite: C or better in either DES 430 or DES 452. A design workshop for the development and production of materials for portfolio. Preparation of a Final Project containing design work for a non-profit organization or a selected design issue, a written thesis related to it and public presentation of this project.

**DES 497 Special Topics in Design.** 3(0-6) S.

Prerequisite: Missouri State GPA of at least 2.50 and a GPA of 3.00 or higher in the major and admitted to Art or Design degree program and permission of the instructor. The specific topics will change from term to term depending upon the interest of students and professors, e.g. Scientific Illustration, Comic Book Illustration, Art Direction, Book Arts, History of the Book, Letterpress Printing. May be repeated to a total of 9 hours. Variable Content Course.

**DES 499 (407) Design Internship.** 1-3 (0-6) D.

Prerequisite: Missouri State cumulative GPA of at least 2.50 and a GPA of 3.00 or higher in the major and admitted to Design degree program and permission of Design Program Coordinator. Student will complete actual job assignments for outside organizations under the supervision of a design faculty member. May be repeated to a total of 6 hours. Graded Pass/Not Pass only.

## School of Communication Studies

The School of Communication Studies encompasses the departments of Communication and Media, Journalism & Film. The heads of these departments serve as co-directors of the school to facilitate a number of joint ventures and activities in which both departments participate.

### Department of Communication

**Department Head and Co-Director of the School of Communication Studies:** Associate Professor Carey H. Adams, Ph.D.  
375 Craig Hall, Phone: 836-4423, FAX: 836-4774

Programs offered through the Department of Communication are designed to prepare students for various careers, including organizational communication, public relations, political communication and communication education. These programs also provide a solid foundation for graduate work or law school, which a significant number of our majors choose to pursue.

Student organizations and activities include the International Association of Business Communicators, the communication honor society Lambda Pi Eta and the chapter of the professional organization Association of Women in Communication. For many years, Missouri State University has been recognized as having one of the best forensics programs in the nation, and we have a nationally ranked debate team. Each year, our students participate in more than 20 debate and individual events tournaments from coast to coast. Participation in these programs is not limited to department majors. The Department of Communication also sponsors a number of internship programs which place advanced students in jobs with local business, industries, governmental agencies and nonprofit organizations.

### Department of Media, Journalism & Film

**Department Head and Co-Director of the School of Communication Studies:** Professor Karen Buzzard, Ph.D.  
370 Craig Hall, Phone: 836-5218, FAX: 836-4637

Programs offered through the Department of Media, Journalism & Film are designed to prepare students for various careers, including audio and video production, multimedia design, print and broadcast journalism, and media management. All also provide students with a solid foundation for graduate work.

The Department of Media, Journalism & Film office is located in Craig Hall. The university owns and operates *KSMU-FM*, a National Public Radio affiliate, as well as *KOZK-TV*, Springfield's PBS affiliate. The department also operates an instructional television studio, a music recording studio and a radio production lab, as well as Avid® and DigiDesign Protools® post-production editing suites. It maintains a print journalism lab, a digital photojournalism lab and a multimedia production lab, and it oversees the student-run web radio station, *TheGrowl*, the student newspaper, *The Standard*, and the university film series.

### Center for Dispute Resolution

**Director:** Associate Professor Charlene Berquist, Ph.D.  
372 Craig Hall, Phone: 836-8831

The Center is a community resource whose mission is to provide training and education in the field of alternative dispute resolution, and mediation services to students, faculty, staff, and the community at large. The Center offers materials and information about alternative dispute resolution, a speakers bureau, and customized training and technical assistance in mediation for individuals, schools, government agencies, businesses, and nonprofit organizations. The center also sponsors the curriculum-based Program for Young Negotiators with the support of a grant from the Junior League of Springfield. The PYN is a 10-12 week program for middle school youth. See "University Activities, Resources, and Services" section of the catalog for more information.

## Department of Communication

375 Craig Hall, Phone: 836-4423, FAX: 836-4774  
Email: Communication@missouristate.edu

**Department Head:** Professor Carey H. Adams, Ph.D.

**Professors:** John S. Bourhis, Ph.D.; Randy K. Dillon, Ph.D.; Gloria J. Galanes, Ph.D.; Herbert W. Jackson, Ph.D.; Janis L. King, Ph.D.; Ralph R. Smith, Ph.D.; Donal J. Stanton, Ph.D.

**Associate Professors:** Charlene A. Berquist, Ph.D.; Samuel C. Dyer, Ph.D.; R. Richard Ellis, M.A.; Kelly McNeilis, Ph.D.

**Assistant Professors:** Isabelle Bauman, Ph.D.; Eric Morris, M.A.; Dan W. Peterson, Ph.D.; Susan Waters, M.A.

**Lecturers:** Lynn Borich, M.A.; Bryan Brown, M.A.; Deborah Craig, M.A.; Chad T. Johnston, M.A.; Jerri Lynn Kyle, M.A.; Heather Walters, J.D.

**Emeritus Professors:** David L. Dollar, M.S.; Russell M. Keeling, Ph.D.; John I. Sisco, Ph.D.; Holt V. Spicer, Ph.D.; Richard L. Stovall, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Speech and Theatre Education, B.S.Ed.

### General Education Courses

COM 115 is required of all students in order to satisfy the Public Speaking requirement of the Basic Required Courses in General Education. COM 337 may be used to satisfy the Writing II requirement of the Basic Required Courses in General Education.

## Majors

### Admission Requirements

All majors in the Department of Communication (except for those seeking the B.S. in Education degree) must satisfy the following requirements before they can be admitted to the program.

1. Complete a minimum of 59 credit hours.
2. Complete the General Education Basic Required Courses.
3. Have a combined grade point average (Missouri State and transfer) of 2.50 or higher or have a GPA of 2.75 for the last 30 hours of courses completed before applying for admission to the degree program.
4. Complete the departmental core courses and COM 115 with a GPA of 2.50 or higher.
5. Complete any additional admission requirements for selected emphasis or major.
6. Submit application for admission and receive approval by faculty advisor and Head of the Department of Communication.

A student must meet these requirements by the time he/she has completed 90 hours of courses (Missouri State and transfer) to be admitted to the program. No waiver of these requirements will be granted except that transfer students transferring 90 hours or more will be allowed one semester to complete the departmental core courses after transferring to Missouri State.

### Departmental Core

COM 209(3), Survey of Communication Theory  
MED 120(3), Mass Media and Society

### Communication (Non-Comprehensive) Bachelor of Arts

This non-comprehensive major emphasizes communication/persuasion/rhetoric.

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (33 hours)
  1. Departmental Core (6 hours): COM 209(3), MED 120(3)
  2. COM 205(3), 210(3), 315(3), 322(3) or 328(3), 325(3) or 326(3), 350(3)

3. 9 hours of elective courses chosen from: COM 307(3), 309(3), 332(3), 336(3), 360(3), 397(3)\*, 405(3), 505(3), 506(3), 550(3), 566(3), 597(3)\*, or MED 580(3)
4. COM 499(0)

C. Minor Required

D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog

E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

*\*With Advisor Approval. No more than 3 total hours of COM 397 or 597 may be counted toward the 33 hours required.*

### Communication (Non-Comprehensive) Bachelor of Science

A. General Education Requirements - see "Academic Programs and Requirements" section of catalog

B. Major Requirements (33 hours)

1. Departmental Core (6 hours): COM 209(3), MED 120(3)

2. Communication Core (9 hours): COM 210(3), 315(3), 322(3) or 328(3), 499(0)

3. Choose one of the following options:

a. **Communication Studies** (18 hours): COM 205(3), 325(3) or 326(3), 350(3), and 9 hours of electives chosen from: COM 307(3), 309(3), 332(3), 336(3), 360(3), 397(3)\*, 405(3), 505(3), 506(3), 550(3), 566(3), 597(3)\*, or MED 580(3)

b. **Organizational Communication** (18 hours): COM 332(3), 336(3), 360(3), 405(3), 436(3) and 3 hours of elective courses chosen with approval of advisor from COM 495(3), 397(3)\*, 597(3)\*

C. Minor Required

D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

*\*With Advisor Approval. No more than 3 total hours of COM 397 or 597 may be counted toward the 33 hours required.*

### Public Relations (Non-Comprehensive) Bachelor of Science

This major is designed for students who wish to enter public relations, employee relations, and other related fields.

### Additional Admission Requirements

Applicants must submit a letter grade for COM 115(3)\*, COM 209(3), MED 120(3)\* and JRN 270(3). A grade point average of 2.50 or higher must be achieved across these 12 hours.

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (51 hours)
  1. Departmental Core: COM 209(3), MED 120(3)
  2. Public Relations Core: COM 210(3), 309(3), 379(3), 429(3), 439(3), 449(3), 509(3); and 3 additional hours from COM 495(3) or 550(3) or 509(3)
  3. Publishing Design and Technologies: 6 hours from JRN 378(3), 477(3), MED 365(3), 390(3), CIS 195(3), ENG 373(3)
  4. Relational Communication: 3 hours from COM 205(3) or other appropriate COM course selected in consultation with advisor
  5. Advocacy and Rhetoric: COM 350(3) and 3 hours from COM 315(3) or 322(3) or 328(3)
  6. Writing: JRN 270(3); and ENG 321(3) or JRN 370(3) or JRN 374(3)
  7. COM 499(0)
- C. Minor Required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### **Socio-Political Communication (Comprehensive) Bachelor of Science**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (48 hours)
  1. Departmental Core: COM 209(3) and MED 120(3)
  2. COM 210(3), 315(3), 322(3), 328(3), 332(3), 350(3), 379(3), 550(3), JRN 270(3), MED 454(3), 580(3)
  3. 9 hours with advisor approval from: COM 360(3), 495(3), 566(3), 597(3)\*, JRN 407(3), MED 365(3), PLS 316(3), SOC 152(3)
  4. COM 499(0)
- C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

*\*All special topics courses require advisor approval. No more than 6 hours of special topics may be credited toward the major.*

### **Speech and Theatre Education Bachelor of Science in Education (Certifiable grades 9-12)**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (44 hours)
 

Students interested in teaching speech and theatre at the secondary level may choose one of two options: One option emphasizes communication (see below) and the other emphasizes theatre (see Department of Theatre and Dance). Both options meet state certification requirements for Speech and Theatre Education.

  1. Core: COM 115(3), 209(3), 322(3), 332(3), 510(2); THE 130(3), 150(2), 151(1), 310(3), 430(3), 530(3)
  2. **Communication Option:**
    - a. COM 350(3), 405(3), THE 123(3)
    - b. 6 hours of electives to be chosen with approval of advisor from courses numbered 300 or higher in the Department of Communication or Department of Theatre and Dance
- C. Professional Education courses: COM 417(3), COM 490 (6), COM 491(6), and see "Academic Programs and Requirements/Secondary Education" section of catalog
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## **Minors**

### **Communication Bachelor of Arts Bachelor of Science**

- A. COM 209(3)
- B. 12 hours of COM elective courses chosen with approval of department head or delegate (6 hours of which must be chosen from courses numbered 300 or higher) to bring total hours in minor to at least 15 hours.

## **Graduate Program**

The Master of Arts degree offers a major in Communications. The department offers courses for the Applied Communication option of the interdisciplinary Master of Science degree in Administrative Studies. See the Graduate Catalog for details.

## **University Certificate**

A graduate level certificate program is available in Conflict and Dispute Resolution. See the Graduate Catalog for details.

## **Communication Courses**

*Nonmajors who do not meet a course's prerequisite may request permission to enroll from the instructor.*

**COM 100 Introduction to Majors in Communication.** 1(1-0) F,S. This course is intended for new or prospective Communication majors and minors. The course informs students about programs of study in Communication and assists students in making decisions regarding degree programs and career plans. This is an elective course that will not count towards major or minor requirements. Graded Pass/Not Pass only.

**COM 115 Fundamentals of Public Speaking.** 3(3-0) F,S. Instruction and practice in researching, composing, and delivering formal and informal speeches in a variety of public contexts. Representative topics include: ethics in public speaking; listening; library research; outlining; delivery; writing in an oral style; evaluation of public address; and analyzing and adapting to audiences. The course emphasizes informative and persuasive speaking.

**COM 120 College Debate.** 2(0-4) F,S. Open to students of freshman or sophomore standing showing exceptional promise in public speaking.

**COM 205 Interpersonal Communication Theory and Skills.** 3(3-0) F,S.

Theory and practice in the principles and skills of interpersonal communication within a variety of contexts. Representative topics include: perception; self-concept development; verbal and nonverbal communication; effective listening techniques; conflict resolution; and sensitivity to cultural and gender differences.

**COM 209 Survey of Communication Theory.** 3(3-0) F,S. A survey of selected theoretical approaches to understanding mediated and non-mediated human communication.

**COM 210 Communication Research Methods.** 3(3-0) F,S.

A survey of the quantitative, qualitative, and rhetorical methods most commonly used for research in communication. Topics include the nature of the research process; research ethics; academic vs. applied research; evaluating research; and a discussion of specific research methods such as experimental design, statistical interpretation, survey research, individual and group interviewing, sampling and polling, content analysis, ethnography, qualitative analysis techniques, and rhetorical analysis.

**COM 300 Careers in Communication.** 1(1-0) D.

Prerequisite: COM 115 and COM 209 and MED 120. This course assists Communication students to assess their abilities and qualifications, to research professional opportunities, and to prepare for job searching and career planning.

**COM 305 Service Learning in Communication.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a communication course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in communication to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning credit may count toward graduation.

**COM 307 Gender and Communication.** 3(3-0) D.

This course examines theory and research on gender and communication. Its purpose is to help students explore how gender and communication are interrelated, how these concepts intertwine with other aspects of our identities, and how these factors play out in their own lives.

**COM 309 (409) Principles of Public Relations.** 3(3-0) F,S.

Prerequisite: COM 115 and COM 209 and MED 120. Study of the development, planning, and implementation of communication programs and campaigns. Emphasis on the professional practices and ethical standards important to effective communication within organizations, and between organizations and their publics.

**COM 315 Public Speaking II.** 3(3-0) S.

Prerequisite: COM 115. Study and practice in speech research, composition and presentation. Emphasis is placed on speeches for business and the professions.

**COM 320 Inter-Collegiate Debating I.** 2(0-4) F.

Open only to those chosen to debate as University representatives.

**COM 321 Inter-Collegiate Debating II.** 2(0-4) S.

Open only to those chosen to debate as University representatives.

**COM 322 Introduction to Argumentation.** 3(3-0) F,S.

Prerequisite: COM 115. Fundamental theories of argument. This course will meet the secondary teaching certification requirements for a minimum of 2 semester hours in debate.

**COM 325 Nonverbal Communication.** 3(3-0) D.

This course examines the methods of research in nonverbal communication, the types or subcodes of nonverbal behaviors, and the application of nonverbal behaviors in social situations.

**COM 326 Effective Listening.** 3(3-0) D.

Prerequisite: COM 115 and COM 209 and MED 120. The purpose of this course is to prepare the student to understand listening attitudes and behavior and to build a program for improvement in listening skills through application of listening theory to practical situations.

**COM 328 Persuasion.** 3(3-0) F,S.

Prerequisite: COM 115 and COM 209 and COM 210 and MED 120. Modern theories of persuasion with some evaluation of specific case studies.

**COM 331 Employment Interviewing.** 1(1-0) D.

Students will examine the employment interviewing process as an instance of applied persuasion from the perspective of the job applicant. Topics include: anticipating employer questions, types of commonly asked ques-

tions, asking questions during the close, nonverbal elements of persuasive interviewing, the structure of the selection interview, creating positive first impressions, and writing thank you letters after the interview.

**COM 332 Small Group Communication.** 3(3-0) F,S.

Prerequisite: COM 115 and COM 209 and COM 210 and MED 120; Communication majors/minors must be admitted to degree program. Basic theory and techniques of oral interaction in group activities.

**COM 336 Communication in Organizations.** 3(3-0) F,S.

Prerequisite: COM 115 and COM 209 and COM 210 and MED 120; Communication majors/minors must be admitted to degree program. Analysis of communication processes as they occur within organizations. Students study both the effects of the organizational context on communication as well as the role of communication in shaping organizational life and effectiveness.

**COM 337 Writing II: Organizational Symbolism.** 3(3-0) D.

Prerequisite: ENG 110 and COM 210 and 45 hours. Students will examine the production of meaning in organizations through the use of symbols. Students will learn how to locate, examine, and interpret the symbols to be found within and across organizational settings. The course is writing intensive, culminating in a significant written organizational analysis. Students will learn and practice the scholarly discourse in the discipline of Communication.

**COM 350 The Rhetorical Tradition and Contemporary Applications.** 3(3-0) F,S.

Prerequisite: COM 115 and COM 209 and MED 120; Communication majors/minors must be admitted to degree program. A survey of rhetorical theory from the classical period until present. The relevance of the rhetorical tradition to contemporary communication theory and practice is stressed.

**COM 360 Introduction to Intercultural Communication.** 3(3-0) D.

Prerequisite: COM 115 and COM 209 and MED 120; Communication majors/minors must be admitted to degree program. This course investigates the nature of communication between people from different cultures and nations.

**COM 379 (JRN) Writing for Public Relations.** 3(3-0) F,S.

Prerequisite: JRN 270. Study and preparation of copy for press releases, news letters, brochures, annual reports, and other written public relations communications.

**COM 390 Communication and Aging.** 3(3-0) D.

Communication theories as they apply to the aging process. Examination of the effects of communication on the self-esteem, self-perception, well-being, and quality of life of the elderly. Study of communication between the elderly, the elderly and the young, and the elderly and their caregivers in a variety of contexts, including in one-on-one, family, and mediated situations.

**COM 397 Topics in Communication.** 1-3, D.

Prerequisite: COM 115 and COM 209 and MED 120. A course covering a single topic within the field of Communication; subject will vary according to student demand and faculty availability. Examples include Conflict and Conflict Management, and Gender Differences. May be repeated up to a total of 6 hours with permission of department. Variable Content Course.

**COM 405 Interpersonal Communication.** 3(3-0) F.

Prerequisite: COM 115 and COM 209 and COM 210 and MED 120; Communication majors/minors must be admitted to degree program. A survey of contemporary interpersonal communication theories and issues within a variety of contexts.

**COM 417 (SEC) Teaching of Speech and Theatre.** (Identical with THE 417) 3(3-0) F.

Prerequisite: EDC 350, SPE 340, IMT 365, 12 hours in communication and 12 hours in theatre. Scope and objectives of the speech and theatre program in secondary schools; organization and administration of curricular and co-curricular programs; general instruction methodology. Completion of Checkpoint II for the Professional Portfolio is a component of this course. This course is recommended to be completed the fall semester before student teaching. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take COM 490 or COM 491. May not be taken Pass/Not Pass. Cannot receive credit for both COM 417 and THE 417.

**COM 429 (440) Techniques and Cases in Employee Relations.** 3(3-0) F,S.

Prerequisite: COM 210 and COM 309 and COM 328; Communication majors/minors must be admitted to degree program. An in-depth examination of persistent issues, emerging trends and professional practices important to effective internal communications management and employee relations. Case studies, projects and guided practice included.

**COM 436 Communication and Leadership.** 3(3-0) S.

Prerequisite: COM 115 and COM 209 and COM 210 and MED 120; Communication majors/minors must be admitted to degree program. In depth study of the relationship between communication and leadership within organizations and the development of specific communication competencies associated with effective leadership.

**COM 439 Techniques and Cases in Public Relations.** 3(3-0) F,S.

Prerequisite: COM 210 and COM 309 and COM 328; Communication majors/minors must be admitted to degree program. Communication theories and techniques of message preparation as applied to the function of organizational promotion.

**COM 449 Communication Programs and Issues Management.** 3(3-0) F,S.

Prerequisite: COM 210 and COM 429 and COM 439; Communication majors/minors must be admitted to degree program. Analysis and practice in strategic communication program planning and management, including techniques relevant to effective crisis communication and issues management.

**COM 490 Supervised Teaching of Speech (Secondary).** 6, F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both SEC 493 and COM 490. Cannot receive credit for both COM 490 and THE 490.

**COM 491 Supervised Teaching of Speech and Theatre (Secondary)** 6, F,S.

Prerequisite: COM 490 or concurrent enrollment. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both SEC 494 and COM 491. Cannot receive credit for both COM 491 and THE 491.

**COM 493 Clinical Experiences in Teaching II.** 4, F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate Praxis II exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**COM 495 Communication Internship.** 1-6, F,S.

Prerequisite: Communication major or minor and admitted to degree program and permission of Internship Coordinator. Supervised pre-professional field experience related to communication studies. Meeting minimum prerequisite requirements does not guarantee internship placement. May be repeated to a maximum of 6 hours with permission of the Internship Coordinator. No more than 3 hours may be applied to a Communication minor.

**COM 496 Readings in Communication and Persuasion.** 2-3, F,S.

Prerequisite: COM 115 and COM 209 and MED 120 and permission of instructor; Communication majors/minors must be admitted to degree program. Supervised independent study exploring in-depth selected areas. Selected readings controlled by conferences, progress reports and term papers. May be repeated to a total of 6 hours.

**COM 499 Program Assessment.** 0(0-0) D.

Prerequisite: permission of department head. Required assessment of programs for all communication majors. Must be taken during the last semester of graduation or of residence. Assessment activities include submission of a cumulative academic portfolio and may include other elements such as exit interviews, surveys, or examinations. The focus is on communication program development, rather than on individual student evaluation. Graded Pass/Not Pass only.

**COM 500 Service Learning in Communication Graduate Study.** 1, F,S.

Prerequisite: permission of instructor and concurrent registration for graduate credit in a communication, media, or journalism course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in communications to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than 1 hour of service learning credit may count toward a masters degree.

**COM 505 Health Communication.** 3(3-0) D.

Examination of communication theory in the health care context. Emphasis will be on communication effectiveness in health care professional/client relationships, in addition to message practices in small group, organizational, and mediated health campaign settings.

**COM 506 Family Communication.** 3(3-0) D.

This course is intended to provide students with an in-depth examination of communication as it functions in family systems.

**COM 509 Proseminar in Public Relations.** 3(3-0) D.

Prerequisite: permission of instructor. Readings and applications in chosen areas of professional communication practice. May be repeated once for credit. Variable Content Course.

**COM 510 Direction of Forensic Activities.** 2(2-0)D.

Prerequisite: COM 322 or permission. Problems in coaching and conducting forensic contests.

**COM 511 Communication, Community, and Conflict.** 3(3-0) D.

This course equips students to understand the dynamics of interpersonal conflict and its resolution in a variety of community settings. Students will learn to analyze their own conflict styles and to develop self-regulation strategies for collaborative outcomes. The course covers conflict theory and research and applies these ideas to current community and organizational settings and diverse populations. Lectures/discussions by scholars, community leaders, and/or agency personnel who deal with conflict as well as simulations of conflict situations will be provided.

**COM 512 Communication and Diversity in the Workplace.** 3(3-0) D.

Exploration of current theory and research regarding communication and diversity in the workplace. Study of practical applications for the assessment and training of communication skills relative to culture, race, sex, age, disability, sexual orientation and other diversity issues. Emphasis is placed on improving understanding of communication

similarities and differences among diverse population groups. Includes readings, class discussion, observation, and/or class projects about assessment and training in communication skills in a diverse workplace.

**COM 521 Communication, Mediation, and Negotiation.** 3(3-0) D. This course explores the communicative foundation for understanding the processes of mediation and negotiation as methods for resolving conflict, with an emphasis on interpersonal and organizational conflict. The course covers theories and concepts pertaining to mediation and negotiation, particularly alternative dispute resolution, and provides students the opportunity to apply concepts through a variety of experiential activities.

**COM 550 Political Communication.** 3(3-0) D.

Prerequisite: COM 115 and COM 209 and MED 120; Communication majors/minors must be admitted to degree program. Communication majors must complete COM 210. Examination of the communication process in modern political campaigns. Emphasis is placed on the role of communication strategies and tactics in political organization, message formation, fund raising, and mass media usage.

**COM 566 Social Movement Communication.** 3(3-0) D.

Prerequisite: COM 115 and COM 209 and MED 120; Communication majors/minors must be admitted to degree program. Examination of social movement communication with emphasis on functionalist, dramatic, and symbolic convergence theories. Study of movements' use of communication to generate discontent, mobilize and coordinate support, defend themselves and attack opponents, and negotiate with external groups. Critical analysis of collective actions such as student, civil rights, identity, labor, religious, feminist, lesbian/gay, and utopian movements.

**COM 597 Studies in Communication Theory and Practice.** 3(3-0) D. Prerequisite: COM 115 and COM 209 and MED 120. In-depth examination of a specific communication topic. May vary from semester to semester and, with permission of the department, may be repeated to a total of 12 hours. Variable Content Course.

***The following courses are open only to graduate students.***

*To enroll in graduate courses in the Department of Communication, a student must satisfy one of the following two conditions listed below:*

1. Be admitted to the graduate program in Communication, or
2. Have permission to enroll from the Coordinator of Graduate Studies in the Department of Communication.

**COM 601 Introduction to Graduate Studies.** 1(1-0) F.

Introduction to graduate study in communication. Topics include an overview of the field, introduction to relevant journals, library skills, professional associations, planning a program of study, and how to satisfy the research requirement.

**COM 602 Theory and Research in Communication.** 3(3-0) F. Survey of communication theory, models, and research. Topics include perception, construction of meaning, language and symbol systems, interpersonal discourse, relationships, small group interaction, and organizational communication.

**COM 606 Rhetorical Theory.** 3(3-0) F.

The study of rhetorical theories from the pre-Socratic period to the contemporary period.

**COM 610 Contemporary Communication Education.** 3(2-2) F,S. Examination of current practices and trends in Communication Education. Graduate teaching assistants in communication are required to take COM 610 during the first semester of the assistantship. COM 610 is only open to graduate teaching assistants in the Department of Communication.

**COM 612 Quantitative Analysis in Communication Research.** 3(3-0) D.

Quantitative research designs and statistical tools used in human communication research. Topics include descriptive and inferential statistics, validity and reliability, hypothesis testing, and analysis and interpretation of computer assisted research. Students may design and carry out individual research projects.

**COM 613 (513) Media Resources for Organizations.** 3(3-0) D. This course is designed to provide students with an opportunity to explore the interface of profit and non-profit organizations with television, radio, newspapers and the internet to enhance organizational effectiveness. The course is project based focusing on developing specific media resources to meet strategic organizational communication goals.

**COM 614 Qualitative Analysis in Communication Research.** 3(3-0) S. Qualitative approaches to studying human communication. Topics include in-depth interviewing, survey methods, observation and coding techniques in structured and naturalistic settings, and interpretive data analysis. Students may be required to design and complete research.

**COM 616 Rhetorical Analysis in Communication Research.** 3(3-0) D. Prerequisite: COM 606. The investigation and evaluation of rhetorical acts and artifacts for the purpose of understanding rhetorical processes. Students will survey methods of rhetorical analysis and practice critical analysis of artifacts, events, and/or acts.

**COM 618 Applied Communication Research Methods.** 3(3-0) D. Prerequisite: permission of instructor. In-depth examination of a specific applied communication research methodology including: survey research, media criticism, communication audits, in-depth interviewing, and focus group interviewing. Topic will vary semester to semester. May be repeated but only 3 hours will count toward the degree.

**COM 622 Argumentation as Communication.** 3(3-0) D.

Argumentation as related to decision making, conflict resolution and negotiation in business, industry, government, and education.

**COM 624 Theories of Interpersonal Communication.** 3(3-0) D. Topics include theories, concepts, models of interpersonal communication, interpersonal discourse, relationships, resolving conflicts, verbal message analysis, interpreting nonverbal message.

**COM 632 Theories and Concepts of Small Group Communication.** 3(3-0) D.

Survey of theories and concepts related to communication in small groups. Topics include group development, roles, norms, leadership, cohesiveness, decision making, conflict, interaction analysis, and research approaches to small group communication.

**COM 636 (638) Concepts and Analysis of Communication in Organizations.** 3(3-0) D.

Advanced study of communication in organizations. Application of traditional and contemporary theories of communication and organizations in current research and practice. Particular attention is given to the symbolic nature of organizing and to the analysis of organizational culture.

**COM 639 Concepts and Analysis of Public Relations.** 3(3-0) D. Prerequisite: COM 309. Examination of concepts which underlie practices in public relations. Analysis of current practices and issues important in public relations for corporations, not-for-profit organizations, government agencies, and educational institutions.

**COM 695 Communication Internship.** 1-6, F,S.

Prerequisite: 12 graduate credit hours in Communication, permission of department. Independent projects in the various areas of communication. May be repeated to a maximum of 6 hours with permission of the department.

**COM 696 Independent Study.** 1-4, F,S.

Prerequisite: permission of advisor. Study may be reading project or a practical application of theories. May be repeated to a maximum of 4 hours.

**COM 697 Seminar: Communication Theory.** 3(3-0)D.

Special topics in history, theory and criticism of communication. Topic may vary from semester to semester. With permission, may be repeated for a maximum of 6 hours.

**COM 699 Master's Thesis.** 1-6, F,S.

Prerequisite: completion of a minimum of 9 graduate credit hours in communication, permission of the Director of Graduate Studies and admission to the thesis option. In addition, the student must complete 3 graduate hours in research methods or be concurrently enrolled in one of the following courses: COM 612, COM 614, COM 616, or COM 618.

## Department of Media, Journalism & Film

370 Craig Hall, Phone: 836-5218, FAX: 836-4637

Email: MJF@missouristate.edu, Department Web Site: <http://mjf.missouristate.edu>

**Department Head:** Professor Karen Buzzard, Ph.D.

**Professors:** Arlen E. Diamond, Ph.D.; Thomas V. Dickson, Ed.D.; Mark Paxton, Ph.D.; Joel Persky, Ph.D.

**Associate Professors:** Mark M. Biggs, M.A.; James W. Bihlmeyer, M.F.A.; Christina S. Drale, Ph.D.; Timothy White, Ph.D.

**Assistant Professors:** Andrew Cline, Ph.D.; Deborah Larson, Ph.D.; Mary Jane Pardue, Ph.D.; Medhi Salsali, Ph.D.; Weiyang Wang, M.F.A.; Janice Windborne, Ph.D.

**Instructor:** Cheryl Hellmann, M.A.

**Emeritus Professor:** Minrose L. Quinn, Ph.D.

### General Education Course

MED 120 may be used to satisfy the Social Science Perspective of the Culture and Society Area of Inquiry in General Education.

## Majors

### Admission Requirements

All majors in the Department of Media, Journalism & Film (except for those seeking the B.S. in Electronic Arts) must satisfy the following requirements before they can be admitted to the program.

1. Complete a minimum of 59 credit hours.
2. Complete the General Education Basic Required Courses.
3. Have a combined grade point average (Missouri State and transfer) of 2.25 or higher.
4. Complete the departmental core courses and the core course for the Mass Media or Journalism option to which you are applying with a GPA of 3.00. A student may retake a course only once for purposes of achieving the 3.00 GPA in the core.
5. Complete any additional admission requirements for selected major.
6. Submit application for admission and receive approval by faculty advisor and Head of the Department of Media, Journalism & Film.

A student must meet these requirements by the time he/she has completed 90 hours of courses (Missouri State and transfer) to be admitted to the program. No waiver of these requirements will be granted except for transfer students transferring 90 hours or more will be allowed one semester to complete the departmental core courses after transferring to Missouri State.

### Other Requirements

Departmental majors may not take a second major within the department.

### Departmental Core

MED 120(3), Mass Media and Society

MED 204(3), Survey of Mass Media Theory

**Core Courses for Departmental Options**

Journalism (Non-Comprehensive): JRN 270(3)

Mass Media (Non-Comprehensive): MED 274(3)

Mass Media (Comprehensive): MED 365(3)

## Electronic Arts (Non-Comprehensive) Bachelor of Science

### Admission Requirements

1. Preadmission Core Courses: complete 9 hours with a GPA of 3.00 or higher from the following Electronic Arts preadmission core courses before applying to the program: ART 110(3) or 100(3); MED 290(3), 365(3); MUS 216(3). Core courses in the student's chosen option must be completed before applying.
  2. Initial Portfolio Review: Portfolio must include a minimum of two and a maximum of three examples of audio, video, multimedia, and/or computer animation work, with at least one example coming from a core course. Specific guidelines are required for portfolios. See advisor or the Electronic Arts Coordinator for details.
- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
  - B. Major Requirements (37 hours)
    1. Core Courses: ART 110(3) or 100(3), 300(3); MUS 216(3); MED 290(3), 365(3); ART 498(4) or MED 498(4)
    2. Choose one of the following options (18 hours):
      - a. **Audio Studies:** MED 461(3), 561(3); MUS 316(3), 529(3); select 6 hours with advisor approval: MED 382(3), 495(1-6); MUS 100(2), 111(2), 137(1), 512(3); THE 558(3)
      - b. **Computer Animation Studies:** ART 230(3); MED 465(3); select 12 hours with advisor approval: ART 330(3), 430(3-9), 431(3), 399(3-6)
      - c. **Multimedia Studies:** MED 390(3), 490(3); ART 210(3); DES 202(3); select 6 hours with advisor approval: ART 230(3); MED 465(3), 492(3), 495(1-6). *DES 202 should be taken only after successful completion of initial portfolio review.*
      - d. **Video Studies:** ART 230(3); MED 465(3); select 12 hours with advisor approval: MED 390(3), 492(3), 495(1-3), 562(3), 565(3), 583(3)
  - C. Minor Required
  - D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog



## Journalism (Non-Comprehensive) Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (39 hours)
  - 1. Departmental Core: MED 120(3), 204(3)
  - 2. Journalism Core: JRN 270(3), 407(3), 574(3), MED 454(3), 581(3)
  - 3. Choose one of the following options (18 hours):
    - a. **Broadcast Journalism:** JRN 284(3), 381(3), 388(3), 481(3), MED 365(3), 382(3) or 383(3)
    - b. **Print Journalism:** JRN 370(3), 372(3), 374(3) or 375(3), 378(3), 476(3), 477(3)

**NOTE:** A student must achieve a combined GPA of 3.00 in MED 120(3), MED 204(3) and JRN 270(3) along with a 2.25 overall GPA to be admitted to this major.

- C. Minor required. **NOTE:** No course may count for both the major and the minor. A minor in Mass Media will not meet the minor requirement.
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Mass Media (Non-Comprehensive) Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (39 hours)
  - 1. Departmental Core: MED 120(3), MED 204(3)
  - 2. Mass Media Core: MED 274(3), 325(3), 365(3), 454(3), 581(3), JRN 270(3), 407(3)
  - 3. Choose one of the following options:
    - a. **Film Studies:** MED 374(3), 375(3), 470(3), 570(3)
    - b. **Media Studies:** 12 hours of MED or JRN electives chosen with approval of advisor to bring total hours in major to at least 39 hours

**NOTE:** A student must achieve a combined GPA of 3.00 in MED 120(3), MED 204(3) and MED 274(3) along with a 2.25 overall GPA to be admitted to this major.

- C. Minor Required. **NOTE:** No course may count for both the Mass Media major and the minor.
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Mass Media (Non-Comprehensive) Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (39 hours)
  - 1. Departmental Core: MED 120(3), MED 204(3)
  - 2. Mass Media Core: MED 274(3), 325(3), 365(3), 454(3), 581(3), JRN 270(3), 407(3)
  - 3. Choose one of the following options:
    - a. **Film Studies:** MED 374(3), 375(3), 470(3), 570(3)
    - b. **Media Studies:** 12 hours of MED or JRN electives chosen with approval of advisor to bring total hours in major to at least 39 hours

**NOTE:** A student must achieve a combined GPA of 3.00 in MED 120(3), MED 204(3) and MED 274(3) along with a 2.25 overall GPA to be admitted to this major.

- C. Minor Required. **NOTE:** No course may count for both the Mass Media major and the minor.
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Mass Media (Comprehensive) Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (51 hours)
  - 1. Departmental Core: MED 120(3), MED 204(3)
  - 2. Mass Media Core: MED 274(3), 325(3), 365(3), 454(3), 581(3), JRN 270(3), 407(3)
  - 3. Choose one of the following options (15 hours):
    - a. **Media Operations:** MED 320(3), 598(3), MKT 350(3), 352(3); select 3 hours from MED 355(3), 390(3), COM 309(3), 336(3)
    - b. **Production:** MED 382(3) or 383(3) or 465(3); MED 381(3) or 565(3); select 9 hours from MED 290(3), 382(3), 383(3), 390(3), 465(3), 490(3), 495(3), 561(3), 562(3), 583(3); JRN 284(3)
  - 4. 9 hours of elective courses chosen with approval of advisor for a total of at least 51 hours

**NOTE:** A student must achieve a combined GPA of 3.00 in MED 120(3), MED 204(3) and MED 365(3) along with a 2.25 overall GPA to be admitted to this major.

- C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Minors

### Film Studies Bachelor of Arts Bachelor of Science

- A. MED 274(3)
- B. 12 hours of electives from MED 374(3), 375(3), 470(3), 570(3) to bring the total to at least 15 hours.

### Journalism Bachelor of Arts Bachelor of Science

- A. JRN 270(3), 370(3), 374(3) or 375(3), 407(3), 476(3)
- B. 3 hours of elective JRN courses to bring total hours in minor to at least 18 hours.

### Journalism Bachelor of Science in Education (Certifiable grades 9-12)

- A. JRN 270(3), 370(3), 407(3), 476(3), 477(3)
- B. 15 hours of elective JRN, MED or related courses with journalism advisor approval to bring total hours in minor to at least 30 hours.
- C. Journalism teaching methods: JRN 405(2)
- D. In order to meet Missouri state teacher certification requirements, all candidates for the Bachelor of Science in Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area, which includes all courses required for the minor.

**Mass Media****Bachelor of Arts****Bachelor of Science**

A. MED 120(3), 454(3)

B. 12 hours of MED electives (6 hours must be numbered 300 or higher) to bring total hours in minor to at least 18 hours.

**Journalism Courses**

*Nonmajors who do not meet a course's prerequisite may request permission to enroll from the instructor.*

**JRN 270 Introduction to Journalism.** 3(3-0) F,S.

Prerequisite: ENG 110. Study of the purposes and forms of journalism. Includes writing the basic types of stories. Typing skills required.

**JRN 284 (MED) Broadcast Performance.** 3(2-2) F,S.

The development of disciplines controlling vocal and visual mechanics as well as interpretative performance for announcers, newscasters, interviewers and narrators of various radio and television situations.

**JRN 300 Special Topics in Journalism.** 1-3, D.

A course upon a single topic of current interest. May be repeated with permission of the department to a total of 6 hours if topics are different.

**Approved recurring course topic: Business Reporting.** 3(3-0) D.

Prerequisite: JRN 270. Techniques for information gathering, interviewing and reporting business news and accessing online resources for information about business topics. The course also covers the relationship between business and the community.

**Approved recurring course topic: Storytelling with a Camera.** 2(2-0) D.

Emphasis on basic principles of picture composition and the use of light with a 35mm digital or film still camera in the manual mode.

**JRN 305 Service Learning in Journalism.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a journalism course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in journalism to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**JRN 370 (371) News Reporting and Writing.** 3(3-0) F,S.

Prerequisite: ENG 110 and JRN 270. Instruction and practice in gathering news material, writing news reports, and editing copy. Includes introduction to news beats and specialized reporting techniques.

**JRN 372 Public Affairs Reporting.** 3(3-0) S.

Prerequisite: JRN 370. Instruction and practice in gathering material and writing stories on public affairs, with emphasis on state and local government.

**JRN 374 Newspaper Feature and Opinion Writing.** 3(3-0) F.

Prerequisite: JRN 270. Practice in writing newspaper features, including human interest stories, news features, personality profiles and background stories; practice in writing editorials, columns, analyses and reviews.

**JRN 375 Magazine Article Writing.** 3(3-0) S.

Prerequisite: JRN 370 or JRN 374. Practice in writing nonfiction articles for magazines, including profiles, informatives, essay-reviews, and how-to articles.

**JRN 378 Photojournalism.** 3(3-0) F,S.

Prerequisite: JRN 270. Instruction and practice in news, feature and sports photography, photo editing, caption writing, and traditional and electronic image development for the print media. The course will also address the relationship of photos to text, photojournalism ethics and legal practices. Note: Students must provide their own 35mm single lens reflex camera with a manual mode.

**JRN 381 Broadcast News Writing.** 3(3-0) F,S.

Prerequisite: JRN 270. Instruction and practice in basic scripting technique and writing skills needed to be a broadcast journalist. Through writing, students will examine the fundamentals of news judgment and the organizational style of storytelling for radio and television formats.

**JRN 388 Electronic News Gathering.** 3(2-2) F.

Prerequisite: JRN 270, MED 365, and JRN 381 or MED 381. News gathering techniques for television. Students will be introduced to photojournalism methods as they learn to tell news stories using pictures and sound.

**JRN 405 Teaching of High School Journalism.** 2(1-2) D.

Prerequisite: JRN 370 and admitted to teacher education program. Techniques of teaching journalism and advising school publications; organization of teaching materials, and evaluation. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take Supervised Teaching. May not be taken Pass/Not Pass.

**JRN 407 Media Law.** 3(3-0) F,S.

Prerequisite: MED 120. History and application of the speech and press clause of the First Amendment; libel law, privacy law, copyright and other legal matters relating to mass media; relation of media law to journalistic ethics.

**JRN 476 Newspaper Editing.** 3(3-0) F,S.

Prerequisite: JRN 370. Principles and practices of copy-editing and rewriting news stories, headline writing, use of graphics, and makeup for print and online newspapers.

**JRN 477 Publications.** 3(3-0) F,S.

Prerequisite: JRN 370. Design and production of tabloids, magazines, newsletters, and brochures using desktop publishing techniques; survey of printing processes and type selection; use of color, graphics, and photographs.

**JRN 481 Broadcast News Reporting.** 3(3-0) S.

Prerequisite: JRN 381 and JRN 388. Fundamentals of researching, gathering, and reporting broadcast news; creating news packages for radio and television.

**JRN 492 Independent Study in Journalism.** 1-3, D.

Prerequisite: JRN 270 and permission of instructor. Supervised independent study exploring topics determined by the student in consultation with journalism faculty member. May be repeated to a total of 6 hours with permission of the department.

**JRN 574 Journalism Internship.** 1-6, F,S.

Prerequisite: 60 hours and permission of the instructor. For juniors, seniors, and graduate students interested in practical experience with news organizations. Activities may include such things as advanced writing, reporting, photography, editing, management, or production at campus or off-campus publications, news services, or broadcast or cable stations. May be repeated to a total of 6 hours.

**JRN 590 Issues in Journalism.** 3(3-0) D.

Prerequisite: 60 hours. A variable content course addressing topics of current interest as well as timeless issues. May be repeated to a total of 6 hours with permission if topic is different.

**Mass Media Courses**

*Nonmajors who do not meet a course's prerequisite may request permission to enroll from the instructor.*

**MED 120 Mass Media and Society.** 3(3-0) F,S.

Theories and issues related to mass media as agents of social change. Both print and electronic media will be covered, including newspapers, radio, television and film.

**MED 204 Survey of Mass Media Theory.** 3(3-0) F,S.

A survey of the history, development, and current state of mass communication theory and its relationship to the ways in which mediated messages are delivered and received.

**MED 274 Introduction to Film.** 3(2-2) F,S.

The aesthetic and technical perspective of all types of motion pictures (narrative, non-narrative, experimental), using a number of selected domestic and foreign films as examples. Written analyses are required. Viewing of selected films outside of class time may be required.

**MED 290 Introduction to Multimedia Design.** 3(2-2) F.

Prerequisite: ART 100 or ART 110. A broad exploration of multimedia design via readings and creative experiences. The following areas are considered: principles underlying the production of multimedia titles, elements of appropriate multimedia design, evaluation of existing multimedia releases, and group participation in a multimedia project.

**MED 300 Special Topics in Media.** 1-3, D.

A course upon a single topic of current interest. May be repeated to a total of 6 hours if topics are different.

**Approved recurring course topic: Authoring DVD Portfolios and Press Kits.** 2(2-0) D.

Interactive design aspects of authoring for DVD. The course focuses on the implementation of interactivity to help the students promote themselves as visual artists. Course includes preproduction and previsualization, menu pages, buttons, transitions, slide shows, audio components, and presenting your work in an efficient manner geared to having an impact on your target audience. Students should have previously completed video, audio and graphic work such as portfolio items to be used in the final DVD project.

**Approved recurring course topic: Documentary Film History and Theory.** 2(2-0) D.

Students will screen a series of classic documentary films as they study the history, theory, and the social role played by documentaries in the 20<sup>th</sup> century. The course will examine those characteristics that distinguish the documentary from other film genres. The diversity and historical development of the genre will also be traced through critical essays written by documentary film makers and critics, and through discussions of classic films.

**Approved recurring course topic: James Bond and the Movies.** 1(1-0) D.

Historical view of the way in which the James Bond film series, the longest-running series in movie history, progressed, changed and adapted as well as how it influenced not only the whole spy/action/adventure film genre but society itself over a period of more than three decades.

**Approved recurring course topic: The Portrayal of Women in Television Situation Comedies.** 2(2-0) D.

Students will examine what we have been watching on prime time television between 1952 and the present in an attempt to determine how the image of women, as seen in network situation comedies, has evolved. Two questions will frame the course: 1) Is there a correlation between what we watch and how we act? 2) Is there a correlation between sitcom life and real life?

**MED 305 Service Learning in Media.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a media course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in media to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**MED 320 (486) Understanding the Broadcast Industry.** 3(3-0) D.

Prerequisite: MED 120. An overview of national and local broadcast operations, including a detailed examination of national and local broadcast operations including organizational structure, management functions, program production and distribution strategies, program management, sales, promotion and research.

**MED 325 History of Broadcasting.** 3(3-0) F,S.

The development and growth of broadcasting with emphasis on political economic history, regulatory development and programming history and development.

**MED 355 New Communication Technologies.** 3(3-0) D.

Prerequisite: MED 120. An examination of existing and future communication technologies, the role each might play in the emerging telecommunications environment, and the effects of these technologies on current and future television and audio program development and distribution.

**MED 365 Media Design and Production.** 3(2-3) F,S.

Prerequisite: MED 120. A study of visual aesthetics and production techniques used in film and video. Students will learn image, motion design, sound, and nonlinear concepts that will be reinforced through video production exercises.

**MED 374 History of Film I.** 3(2-2) F.

An examination of the evolution of film technique and theory from 1895 to World War II. Emphasis is placed on the social impact of film and on the artistic and technical aspects of the medium. Viewing of selected films outside of class may be required.

**MED 375 History of Film II.** 3(2-2) S.

An examination of the evolution of film technique and theory from World War II to the present. Emphasis is placed on the social impact of film and on the artistic and technical aspects of the medium. Viewing of selected films outside of class may be required.

**MED 381 Broadcast Writing.** 3(3-0) F,S.

Prerequisite: ENG 110. An examination of the principles and production techniques involved in writing broadcast copy. Three areas will be investigated in depth: copywriting for radio and television, news writing and feature story preparation.

**MED 382 Radio Production.** 3(2-2) F,S.

Theory and practice of radio production techniques, procedures, and aesthetics. Emphasis is placed on production, programming, use of audio equipment and digital software, and analysis of the technical and aesthetic quality of radio programs.

**MED 383 Television Production.** 3(2-2) F,S.

Prerequisite: MED 365. Orientation to and practical experience in creating TV production in the professional studio setting.

**MED 384 Internet Radio Practicum.** 3(2-2) D.

Practice in the Internet environment creating actual radio programming in such areas as Music, Talk, News, Sports, and Live Events. Instruction will be provided in promotion, operations and streaming technology and in preparing a portfolio CD. A basic knowledge of computers, audio editing and the content area of the proposed radio show are necessary. May be repeated to a total of 6 hours.

**MED 390 Website Design and Construction.** 3(3-1) D.

Prerequisite: ART 100 or ART 110. Through readings and production experiences, students are expected to acquire a basic working knowledge of WWW site design. Web design is analyzed on many levels: audience considerations, screen layout, navigation controls, image use, interactivity options, etc. This course includes the creation and publication of a website.

**MED 454 Media Analysis and Criticism.** 3(3-0) F,S.

Prerequisite: MED 120 and MED 204. The political, cultural, economic and social impact of the American media and their content as they affect and influence the individual and the culture.

**MED 461 Sound Editing and Mixing.** 3(2-2) F.

Prerequisite: MED 365. Fundamental theoretical and practical principles of sound editing and mixing for film-video. Emphasis will be placed on audio post-production. Students will learn editing and mixing techniques using digital audio software, and they will edit and mix a variety of exercises designed for both aesthetic and technical considerations.

**MED 465 Principles of Cinematography and Editing.** 3(2-2) F.

Prerequisite: MED 365. The fundamental theoretical and practical principles of editing and lighting for film and video. Location lighting and

camera techniques and aesthetics will be explored in depth. Editing theory will be addressed as students learn non-linear editing techniques. The class will shoot and edit a variety of exercises designed to illustrate the theoretical, practical, and aesthetic issues explored in this course.

**MED 470 Special Topics in Film.** 3(2-2) F.

An examination of special topics from historical or current interest in film. Subject will vary from semester to semester depending on student interest and faculty availability. Examples: Experimental Films, Science Fiction and Horror in Film, Film as Propaganda, The Image of Minorities in Film, the French New Wave, Film Criticism. May be repeated to a total of 6 hours. Viewing of selected films outside of class may be required. Variable Content Course.

**Approved recurring course topic: Animation.** 3(2-2) D.

An examination of the history and aesthetics of animation, including both commercial and independent animation. Animation techniques (cel, computer, pixilation, cut-out, etc.), national animation industries (Hollywood, Japanese, Eastern European, etc.), and significant issues of contemporary animation studies will be covered. Written research essays are required, and film viewing outside of class may be required.

**Approved recurring course topic: Asian Cinema.** 3(2-2) D.

An examination of the art and industry of Asian cinema, looking at the histories and aesthetic features of the films (both mainstream and alternative) of the major filmmaking nations of Asia, as well as the practical and social factors involved in filmmaking in Asia. Written research essays are required, and film viewing outside of class may be required.

**MED 490 Multimedia Interactivity Design.** 3(2-2) D.

Prerequisite: MED 290 and MED 365. An advanced study of interactive multimedia design based on human-computer interaction principles. Course will include the creation of a CD-ROM or DVD-ROM project incorporating interactivity as a core multimedia design element. May be repeated to a total of 6 hours if topics are different.

**Approved recurring course topic: Flash for the Web.** 3(2-2) D.

A detailed exploration into the practical use and artistic applications of Flash multimedia software for creation of online interactive media.

**Approved recurring course topic: Game Design and Development.** 3(2-2) D.

An investigation into methods of creating real-time, 3D animated games without programming. Students will be introduced to the latest software applications allowing 3D artists and animators to create interactive immersive environments and games without writing codes.

**MED 492 Independent Study in Electronic Media.** 2-3, F,S.

Prerequisite: admission to a departmental major, permission of instructor and 6 hours of upper division MED or JRN coursework. Supervised independent study exploring selected areas determined by the student in consultation with the media faculty. Course work may include readings, term papers, or projects. May be repeated to a total of 6 hours with permission of the department.

**MED 495 Media Internship.** 1-6, F,S.

Prerequisite: admission to a departmental major plus 6 hours of upper division MED coursework and permission of the instructor. Work experience with a professional media organization. The student will be provided an educational opportunity not available through classwork experience. May be repeated to a total of 6 hours.

**MED 498 Senior Project in Electronic Arts.** 2(2-0) F,S.

Prerequisite: ART 300. Admission to this course is contingent upon the successful completion of the Electronic Arts junior portfolio review. Under advisement from faculty, media students will form production teams consisting of video production, computer animation, and audio production students. Each team will produce a broadcast-quality audio or video project which may assume various forms, such as a music video, a computer animation piece, or a short dramatic video. The first two

hours will be spent in pre-production preparations for the approved senior project. The second two hours will involve production and post-production of the approved project. This course must be repeated in sequence for a total of four hours. If a student drops out of the second semester of MED 498, the student will have to join a new senior project group and repeat the first semester (preproduction phase) for a replacement grade before completing the final two hours of the course.

**MED 561 Sound Design.** 3(3-3) S.

Prerequisite: MED 461. Students will learn how to design sound for film/video and how to carry out aesthetic considerations during film/video production. The art of sound design will be explored in depth, enhanced by recording techniques in field sound production and advanced techniques in editing and mixing. The concept of digital surround sound is also covered.

**MED 562 Electronic Field Production.** 3(2-2) S.

Prerequisite: MED 465. Planning, designing and executing single camera video production in non-studio settings. Emphasis will be placed on narrative projects that require advanced application of media design concepts including cinematography, nonlinear editing, directing, producing, and sound design.

**MED 565 Scriptwriting.** 3(3-0) F,S.

Prerequisite: MED 365. The many phases of feature film scriptwriting will be investigated in detail. Students will create premise proposals, treatments, sequence outlines, and a master scene script. Characterization, dialogue, plot structure and other important scriptwriting elements will also be studied.

**MED 570 Film Studies: Film Form, Theory and History.** 3(3-0) D.

An analysis of the visual art of film in terms of cineliteracy, by using contemporary film theory to investigate such aspects as the relationship between form and content, visual style and the nature of pictorial motion. Weekly screenings and discussions of short films, excerpts, complete classics and outside assignments of current first-run films.

**MED 580 Media in Politics.** 3(3-0) D.

Prerequisite: MED 120; and COM 209 or MED 204. An in-depth examination of the role of print and electronic media in American politics. Emphasis is placed on media coverage of government, social issues, and political campaigns. The course examines both the strategies of paid media and the media's coverage of politics as news.

**MED 581 Issues in Media Ethics.** 3(3-0) F,S.

Prerequisite: MED 120 and MED 204. An investigation of fundamental ethical issues and their implications for media practitioners. Responsibilities of media practitioners to the public, advertising agencies, the government, and special interest groups will be examined. Special attention will be paid to the possibility of conflict between the business of media and general ethical considerations.

**MED 583 Producing and Directing for Television.** 3(2-2) D.

Prerequisite: MED 383. Principles, skills, and techniques involved in effective television directing. Practical experience in producing and directing a variety of television formats.

**MED 597 Advanced Studies in Media.** 3(3-0) D.

Prerequisite: permission of instructor. In-depth examination of a special topic in media. The variable content course may be repeated to a total of 6 hours.

**MED 598 Seminar in Broadcast Management.** 3(3-0) D.

An in-depth analysis of management issues in the broadcast industry. Current theory and specific practices are examined and applied to broadcast operations.

*The following course is open only to graduate students.*

**MED 604 Theory and Research in Mass Communication.** 3(3-0) S.

Survey of theories, models and research in mass communication. Topics include propaganda, attitude change, agenda-setting and media effects research.

## Department of English

301 Pummill Hall, Phone: 836-5107, FAX: 836-4226  
Email: English@missouristate.edu

**Department Head:** Professor W.D. Blackmon, Ph.D.

**Distinguished Professor:** Joel Chaston, Ph.D.

**Professors:** James Baumlin, Ph.D.; Mary F. (Tita) Baumlin, Ph.D.; William Burling, Ph.D.; Michael Burns, M.F.A.; J. Clark Closser, Ph.D.; Michael Ellis, Ph.D.; Leigh Henson, D.A.; Jane Hoogestraat, Ph.D.; George Jensen, Ph.D.; Judith John, Ph.D.; James T. Jones, Ph.D.; Etta M. Madden, Ph.D.; Mark Trevor Smith, Ph.D.; Kristene S. Sutliff, Ph.D.

**Associate Professors:** Linda Benson, Ph.D.; Tina Biava, Ph.D.; Marcus Cafagña, M.F.A.; Martin Jones, Ph.D.; Marianthe Karanikas, Ph.D.; Yili Shi, Ph.D.; Jean Stringam, Ph.D.; Linda Trinh-Moser, Ph.D.; Margaret Weaver, Ph.D.

**Assistant Professor:** Rachel Gholson, Ph.D.

**Lecturers:** Magdelana Berry, M.A.; Robert J. Bilyeu, M.A.; Tracy Dalton, M.A.; Jacinda Gides, M.F.A.; Heidi A. Harris, M.A.; Earl G. Holmer, M.A.; Mara Ioannides, M.A.; Gayle Mercer, Ph.D.; Richard L. Neumann, Ph.D.; Angelia M. Northrip, M.A.; Michael Stowe, M.A.; Barrie Talbott, M.A.; John Turner, M.A.

**Emeritus Professors:** Robert Beckett, Ph.D.; Carter M. Cramer, Ph.D.; Wesley E. Hall, Ed.D.; Robert Henigan, Ph.D.; Donald R. Holliday, Ph.D.; Violet Krischel, Ph.D.; Katherine Lederer, Ph.D.; Glenn Pedersen, Ph.D.; Mareta Williams Pons, M.A.; Harriet Shirley, M.A.; Roland Sodowsky, Ph.D.; Mary Rose Sweeney, Ed.D.; Myron Taylor, Ph.D.; Richard M. Turner, Ph.D.; Nancy Walker, Ph.D.; Bernice Warren, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – English, B.S.Ed., and Secondary Education/English, M.S.Ed.

### Placement Requirement

An ACT English score of 19 or higher or an SAT English score of 451 or higher will meet the prerequisite for enrolling in ENG 110. Students with an ACT English score of 18 or lower or an SAT English score of 450 or lower must enroll in ENG 100.

Students without ACT and SAT test scores can take a placement test that is periodically administered by the English Department.

### Credit By Examination

Credit for ENG 110 is available for the Advanced Placement (AP) Examination and the College Level Examination Program (CLEP) Subject Examination and the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### General Education Courses and Restrictions

**General Information:** ENG 110 will satisfy the Writing I requirement for general education. ENG 210, 221, 310, or ENG 321 will satisfy the Writing II requirement for general education. The following courses may be used toward the Areas of Inquiry component of general education: ENG 200, Culture and Society Area of Inquiry-Humanities Perspective; ENG 296, Self-Understanding Area of Inquiry-Social/Behavioral Perspective; ENG 287 or 380, Self-Understanding Area of Inquiry-Humanities Perspective; and ENG 203, 205, or 215, Self-Understanding Area of Inquiry-Creativity and Vision Perspective.

**Specific Information for English Majors and Minors:** English majors and minors may use, at most, two of these courses toward general education *if* the courses are not also being used to meet the major requirements, minor requirements, or fine arts requirement on the Bachelor of Arts degree.

### Fine Arts Courses

Any literature course except ENG 334 and 338 may be used to meet the fine arts requirement on the Bachelor of Arts degree. Applicable literature courses are: ENG 230, 287, 312, 330, 336, 339, 340, 341, 350, 351, 354, 360, 361, 362, 363, 365, 380, 485, 510, 512, 513, 514, 516, 517, 519, 533, 534, 536, 539, 541, 543, 544, 546, 547, 548, 553, 557, 558, 559, 565, 568, 580, 585.

**Restriction:** English majors or minors may not use the same literature courses to satisfy both the major or minor requirements and the fine arts requirement.

### Restrictions for English Majors

Students completing both a major and a minor offered by the English Department may not count the same course on both the major and the minor.

## Majors

### English

#### Bachelor of Science in Education (Certifiable grades 9-12)

- A. General Education - see “Academic Programs and Requirements” section of catalog
- B. Major Requirements (42 hours)
  1. ENG 200(3)-(may also count toward the Culture and Society Humanities Perspective General Education requirement); ENG 235(3), 338(3), 340(3), 341(3), 350(3), 351(3), 390(3), 520(3); ENG 491(3) or 494(3)
  2. One 500-level literature course
  3. One course from: ENG 360(3), 361(3), 362(3)
  4. One course from 283(3), 354(3), 355(3), 485(3)
  5. ENG 312(3)-students may substitute ENG 513 for ENG 312 but may not count it as their 500-level literature course

**NOTE:** Students must have 12 hours of composition in addition to ENG 235 and 520.
- C. Professional Education courses: ENG 405(3) and see “Academic Programs and Requirements/Secondary Education” section of catalog
- D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a “C” in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### English/Creative Writing Option (Non-Comprehensive) Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (33 hours)
  1. ENG 235(3), 351(3), 508(3)
  2. Two courses from: ENG 340(3), 341(3), 350(3)
  3. One course from: ENG 354(3), 355(3), 360(3), 361(3), 362(3), 363(3), 380(3)
  4. One 500-level literature course
  5. Two courses from: ENG 203(3), 215(3), 225(3)
  6. One course from: ENG 303(3), 315(3), 325(3)
  7. One course from: ENG 500(3), 501(3), 503(3), 506(3) for a total of not fewer than 33 hours
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### English/Literature Option (Non-Comprehensive) Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (36 hours)
  1. ENG 235(3), 340(3), 341(3), 350(3), 351(3); ENG 390(3) or 491(3)
  2. One course from: ENG 354(3), 355(3), 360(3), 361(3), 362(3), 363(3), 380(3)
  3. One course from: ENG 312(3), 510(3), 513(3), 541(3), 543(3)
  4. Two 500-level literature courses (in addition to any 500-level literature courses used to fulfill the requirements for the major)
  5. Six hours of English electives for a total of not fewer than 36 hours, not including ENG 110, 210, 221, 310
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### Professional Writing (Non-Comprehensive) Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (36 hours)
  1. ENG 321(3), 373(3), 377(3), 421(3), 487(3), 574(3); ENG 220(3) or 500(3)
  2. One course from: ENG 235(3), 390(3), 491(3)
  3. One course from: ENG 340(3), 341(3), 350(3), 351(3)
  4. One course from: COM 315(3), 379(3); DES 300(3); ENG 473(3); JRN 477(3); MGT 325(3); PSY 305(3)
  5. Two courses from: COM 315(3), 379(3); DES 300(3); ENG 473(3); JRN 477(3); MGT 325(3); PSY 305(3); or upper division literature, linguistics, or approved cognate courses for a total of not fewer than 36 hours
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### Professional Writing (Non-Comprehensive) Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (36 hours)
  1. ENG 321(3), 373(3), 377(3), 421(3), 473(3), 487(3), 574(3); ENG 220(3) or 500(3)
  2. One course from: ENG 235(3), 390(3), 491(3)
  3. One course from: ENG 340(3), 341(3), 350(3), 351(3)
  4. Two courses from: COM 315(3), 379(3); DES 300(3); JRN 477(3); MGT 325(3); PSY 305(3); or upper division literature, linguistics, or approved cognate courses for a total of not fewer than 36 hours
- C. Minor Required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Minors

### Creative Writing Bachelor of Arts Bachelor of Fine Arts Bachelor of Science

- A. ENG 203(3) or 215(3) or 225(3); ENG 303(3) or 315(3) or 325(3); ENG 501(3) or 503(3) or 506(3)
- B. Writing course (3-6 hours): ENG 203(3), 215(3), 225(3), 321(3); or JRN course(s)
- C. ENG literature course(s) (3-6 hours), for a total of not fewer than 18 hours

### English Bachelor of Arts

- A. ENG 220
- B. 15 hours of English electives, including three 500-level courses, for a total of not fewer than 18 hours

### English Bachelor of Fine Arts Bachelor of Music Bachelor of Science

There is no required selection of courses for an English minor for these degrees. Students are advised to select ENG 220(3), 340(3), 341(3), 350(3), 351(3), and electives in English for a total of not fewer than 18 hours.

### English Bachelor of Science in Education (Non-Certifiable)

- A. Nine hours in composition from: ENG 110(3), 203(3), 210(3), 215(3), 221(3), 235(3), 310(3), 520(3); JRN 270(3)
- B. ENG 351(3), 390(3), 491(3); ENG 338(3) or 536(3)
- C. One course from: ENG 340(3), 341(3), 360(3), 361(3), 512(3), 568(3)
- D. One course from: ENG 220(3), 280(3), 350(3), 517(3), 556(3), for a total of not fewer than 27 hours

### Folklore Bachelor of Arts Bachelor of Fine Arts Bachelor of Science

- A. ENG 283(3), 385(3), 483(3), 485(3)
- B. One course from: ANT 310(3), 320(3), ENG 583(3), for a total of not fewer than 15 hours

## Teaching English to Speakers of Other Languages

### Bachelor of Science in Education (Certifiable grades K-12, additional endorsement only)

- A. ENG 296(3), 505(3), 592(3), 595(3), 596(3), 597(3)
- B. Either: ENG 390(3) or 590(3), for a total of not fewer than 21 hours
- C. Professional Education Courses: RDG 474(2); SPE 310(3) or 340(2)
- D. In order to meet Missouri state teacher certification requirements, all students must have a 2.50 GPA or higher (Missouri State and transfer grades combined) in the certification subject area, which includes all courses required for the minor. A minimum grade of "C" or higher in each course listed above is required for certification.

## Technical Writing

### Bachelor of Arts Bachelor of Fine Arts Bachelor of Science

- A. ENG 321(3), 373(3), 377(3), 421(3); 487(3) or 574(3)
- B. One course from: COM 315(3), 379(3); DES 300(3); ENG 473(3); JRN 477(3); MGT 286(3), 397(3), for a total of not fewer than 18 hours

## Writing

### Bachelor of Science in Education (Non-Certifiable)

- A. ENG 215(3), 220(3), 235(3)
- B. Three courses from: JRN 270(3), 370(3), 374(3), 375(3), 476(3); ENG 203(3), 225(3), 303(3), 315(3), 321(3), 334(3), 390(3), 421(3), 501(3), 536(3), for a total of not fewer than 18 hours

## Graduate Programs

The Master of Arts degree offers majors in English and Writing. The Master of Science in Education degree (secondary education major) offers an area of emphasis in English. See the Graduate Catalog for details.

## English Courses

**ENG 100 (81) Introduction to College Composition.** 3(3-0) F,S. Required of some students as determined by placement score. An introduction to the composition sequence: the purposes of whole compositions, the processes that lead to finished compositions, and the parts that combine to create compositions. May not be used as elective credit on any major or minor offered by the department and will not count toward hours required for graduation. Graded Pass/Not Pass only.

**ENG 110 Writing I.** 3(3-0) F,S.

Prerequisite: appropriate placement score or ENG 100. Critical reading and writing skills applicable to writing within and beyond the college community. Emphasis on composition processes, argumentation of diverse issues, and collaborative learning, such as peer review.

**ENG 131 Introduction to Careers in Technical and Professional Writing.** 1(1-0) S.

Survey of career possibilities and the job market in technical and professional writing. Consideration of document types, formats, conventions, and development processes including discourse strategies, technology tools, collaborative writing, legal and ethical obligations.

**ENG 184 Mini Literature.** 1(1-0) F,S.

Topics in literature, such as detective fiction, Missouri writers, new fiction. Check semester class schedule for topics offered. Course may be repeated, provided topic and title are different, to a maximum of 6 hours. May be counted toward General Education Humanities requirement for those following a general education catalog prior to fall 1997. Variable Content Course.

**ENG 190 Language Skills.** 1(1-0) F,S.

Development of specific writing skills in selected areas of composition, such as sentence grammar and structure, punctuation and capitaliza-

tion, spelling, diction and dictionary use, outlining and organization. Not a composition course. Check semester class schedule to determine topics being offered. Course may be repeated, provided topic and title are different, to a maximum of 3 hours. Will not satisfy the general education requirement in English. Variable Content Course.

**ENG 200 Introduction to Literature.** 3(3-0) F,S.

Investigation of the roles that literature plays in shaping, preserving, and contesting culture and society. Study of literacy in the broadest sense and its impacts over a variety of time periods and cultures.

**ENG 203 Creative Writing: Poetry.** 3(3-0) F,S.

Prerequisite: ENG 110. Introduction to the theory, technique, and terminology of writing poetry, and practical experience in writing in the form.

**ENG 205 Creative Writing: Nonfiction.** 3(3-0) F,S.

Prerequisite: ENG 110. An introduction to writing creative nonfiction, including critical reading in the genre.

**ENG 210 Writing II: Academic Writing.** 3(3-0) F,S.

Prerequisite: ENG 110 or equivalent, and 30 hours or permission of department head. Study and practice of the discourse conventions of academic writing and writing about public affairs from the perspective of an educated person. Preparation for writing within disciplines.

**ENG 215 Creative Writing: Short Story.** 3(3-0) F,S.

Prerequisite: ENG 110. Introduction to the theory, technique, and terminology of short story writing, and practical experience in writing in the form.

**ENG 220 Exposition.** 3(3-0) F,S.

Prerequisite: ENG 110. Problems in exposition and persuasion; elementary logic; critical reading.

**ENG 221 Writing II: Writing for the Professions.** 3(3-0) F,S.

Prerequisite: ENG 110 or equivalent, and 30 hours. Practice in a variety of writing situations encountered by professionals: correspondence, proposals, documented research reports, abstracts, definitions, product and process descriptions. Emphasis on developing skills in audience analysis, analytical reading, critical thinking, research methods, and clear writing.

**ENG 225 Creative Writing: Playwriting.** 3(3-0) F,S.

Prerequisite: ENG 110. Problems in playwriting.

**ENG 230 Introductory Readings in Literature.** 3(3-0) F,S.

Prerequisite: ENG 110. Reading and enjoying poetry, fiction, and drama written in English. Writing will be required on the works read. Taught for non-literature majors. Not open for credit on any English degree.

**ENG 231 Major Writers of English.** 3(3-0) F,S.

Prerequisite: ENG 110. Study of characteristic writings by important American and/or British authors. Writing will be required on the works read. Taught for non-literature majors. Not open for credit on any English degree.

**ENG 235 Critical Approaches to Literature.** 3(3-0) F,S.

Prerequisite: ENG 110. Writing analytical papers employing a variety of critical methods of reading and interpreting poetry, fiction, and drama.

**ENG 280 Short Story.** 3(3-0) F,S.

Prerequisite: ENG 110. Analysis and appreciation of the short story, and the study of its development.

**ENG 283 Introduction to Folklore.** 3(3-0) F.

Prerequisite: ENG 110 or equivalent. Reading and examination of folklore as cultural holding material will serve to introduce research methods of the discipline and major genres of folklore: folk narrative, folk song, and material culture.

**ENG 285 Subjects in Folklore.** 1(1-0) F,S.

Prerequisite: ENG 110. Reading and examination of folklore, as folk art and as cultural holding material; study may focus on types (such as myth, legend, fairy tales); groups (such as miners, cowboys, railroaders); or regions (such as Ozarks, New England, or Scandinavia). Student requests will be considered. May be repeated to a total of 6 hours. Variable Content Course.

**ENG 287 Life Stages in Literature.** 3(3-0) F,S.

Prerequisite: ENG 110. Study of poetry, fiction, drama, biography, and autobiography selected to explore how factors such as historical era, ethnicity, religion, social class, family structure, and gender shape one's experience of life stages; emphasis on class discussion and various kinds of writing, some of it autobiographical; an introductory literature course for English majors and non-majors.



**ENG 291 Introduction to Teaching English to Speakers of Other Languages (TESOL).** 1(1-0) S.

Prerequisite: ENG 110 and 30 hours and concurrent registration in ENG 300. Introduction to basic concepts in Teaching English to Speakers of Other Languages (TESOL), including bilingualism, second language acquisition, current methods and materials used to teach ESOL, and language policy in the U.S.

**ENG 296 Introduction to Linguistics.** 3(3-0) F,S.

Prerequisite: ENG 110. Introduction to fundamental concepts of linguistic theory as they apply to languages of the world, especially English. Areas covered include phonology, morphology, syntax, and semantics, and some applied areas, such as language variation, change, and acquisition, disorders, and language and culture.

**ENG 300 Service Learning in English.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in an English course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in English. It provides an integrated learning experience, addressing the practice of citizenship and promoting an awareness of and participation in public affairs. It includes 40 hours of service that benefits an external community organization, agency or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning credit may count toward graduation.

**ENG 303 Creative Writing: Poetry II.** 3(3-0) F,S.

Prerequisite: ENG 203. An intermediate course, aimed at developing skills and extending knowledge begun in ENG 203.

**ENG 310 Writing II: Writing for Graduate and Professional Schools.** 3(3-0) F,S.

Prerequisite: ENG 110 and 45 hours. Instruction and practice in advanced writing and research for students who plan to pursue post-graduate or professional degrees in a variety of disciplines. Practice in writing documented essays, letters of application, admission essays, and vitae.

**ENG 312 (212) Introduction to Shakespeare.** 3(3-0) F,S.

Prerequisite: ENG 110. Selected representative plays and poems of Shakespeare.

**ENG 315 Creative Writing: Fiction II.** 3(3-0) F,S.

Prerequisite: ENG 215. Intermediate-level work in short story writing. Introduction to the theory, techniques, and terminology of novella and novel writing. Individual conferences.

**ENG 321 Writing II: Beginning Technical Writing.** 3(3-0) F,S.

Prerequisite: ENG 110 or equivalent, and 45 hours. Practice in application letters, résumés, brochures, instructions, graphic illustrations, collaborative writing, and ethical considerations. Students complete a manual or other professional document. Emphasis on presenting information clearly and concisely, in both prose and visuals.

**ENG 325 Creative Writing: Playwriting II.** 3(3-0) F.

Prerequisite: ENG 225. Intermediate-level work in playwriting. Analysis of dramatic structure. Practice in writing one-act and full-length scripts. Workshop staged readings of student scripts. Marketing strategies.

**ENG 330 Studies in Literature.** 3(3-0) F,S.

Prerequisite: ENG 110. Examination of literary modes such as humor, satire, fantasy, tragedy, or genres such as essay, short story, biography. May be repeated for up to 6 hours credit with variable topics.

**ENG 334 (382) Literature for Children.** 3(3-0) F,S.

Prerequisite: ENG 110. Study of various genres—poetry, picture books, traditional stories, modern realistic and fantasy fiction, nonfiction—appropriate for early childhood and elementary grades; criteria for selection. Satisfies a requirement for Early Childhood and Elementary Certification.

**ENG 336 Literature for Middle School.** 3(3-0) F,S.

Prerequisite: ENG 110. Study of various genres—poetry, illustrated books, modern realistic and fantasy fiction, drama, nonfiction—appropriate for middle school (grades 5-9); criteria for selection.

**ENG 338 (383) Literature for Young Adults.** 3(3-0) F,S.

Prerequisite: ENG 110; 60 hours or permission of instructor. Study of various genres—poetry, realistic and fantasy fiction, nonfiction, drama, film—appropriate for secondary school; criteria for selection. Satisfies a requirement for Secondary English Certification.

**ENG 339 Writing for Children and Young Adults.** 3(3-0) F.

Prerequisite: ENG 334 or ENG 336 or ENG 338 or permission of instructor. Introductory practice writing in genres such as literary folk tales, fantasy, realistic fiction, nonfiction, picture book texts, and poetry for young readers at different stages of maturity. Emphasizes the writing process as well as the final product.

**ENG 340 (240) Survey of English Literature I.** 3(3-0) F,S.

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in English literature from the beginning to 1790.

**ENG 341 (241) Survey of English Literature II.** 3(3-0) F,S.

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in English literature from 1790 to the present.

**ENG 350 (250) Survey of American Literature I.** 3(3-0) F,S.

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in American literature from the beginning to 1870.

**ENG 351 (251) Survey of American Literature II.** 3(3-0) F,S.

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in American literature from 1870 to the present.

**ENG 354 Ethnic American Literature.** 3(3-0) F.

Prerequisite: ENG 110. Study of representative literary works by African American, Hispanic American, Native American, or other minority authors. May be repeated to a total of 6 hours if topic is different. Variable Content Course.

**ENG 355 African-American Literature.** 3(3-0) S.

Prerequisite: ENG 110. Survey of representative works of fiction, poetry, personal narratives, and essays in the context of social and cultural movements. Will not count toward any general education humanities requirement.

**ENG 360 Survey of European Literature I.** 3(3-0) D.

Prerequisite: ENG 110. European literature beginning with the Bible and Greek works, and ending at 1700. (Excludes British literature)

**ENG 361 Survey of European Literature II.** 3(3-0) D.

Prerequisite: ENG 110. European literature from 1700 to the present. (Excludes British literature)

**ENG 362 Non-European World Literature.** 3(3-0) D.

Prerequisite: ENG 110. Literature from all areas (except literature of England, Western Europe, and the United States). May be repeated to a total of 6 hours if topic is different. Variable Content Course.

**ENG 363 Introduction to African Literature.** 3(3-0) D.

Prerequisite: ENG 110. Survey of representative works of fiction, poetry, drama, folklore, personal narratives, and essays from various countries on the African continent written in or translated into English. Will not count toward any General Education humanities requirement.

**ENG 365 Modern Poetry.** 3(3-0) F.

Prerequisite: ENG 110. Twentieth century poetry in English, with emphasis upon major poets and poems, both modernist and post-modernist.

**ENG 366 Science Fiction and Fantasy Literature.** 3(3-0) S.

Prerequisite: ENG 110 or equivalent. Representative science fiction or fantasy literary works. May be repeated for a total of 6 hours if topics differ. Variable Content Course.

**ENG 373 Writing with Technology.** 3(3-0) F,S.

Prerequisite: ENG 110 or equivalent, CSC/CIS 101 or equivalent, and 45 hours. Explores software and hardware tools that professional writers use in the workplace to design, compose, present, and distribute technical information. Students will produce projects to gain a hands-on understanding of the tools used in creating online Help and printed documentation, working with graphics, constructing web pages, and other relevant areas.

**ENG 377 Scientific and Technical Editing.** 3(3-0) F,S.

Prerequisite: ENG 110; and 60 hours or permission of instructor. The process of creating a new piece of writing by clarifying, reducing, expanding, and synthesizing materials written by others. Emphasis on audience adaptation, organization, style, and mechanics.

**ENG 380 Introduction to Women's Literature.** 3(3-0) F,S.

Prerequisite: ENG 110. Self-understanding and gender studies approach to reading and reflecting on literary and critical works by women from classical times to the present with emphasis on literature written in English. Course will explore the influence of identity and gender on formation of personal values through exploration of themes such as growing up female, women's roles and relationships, empowerment through spiritual reflection and social action.



**ENG 385 Ozarks Traditions.** 3(3-0) S.

Prerequisite: ENG 283 or permission of the instructor. The course will introduce elements of folklore theory applicable to museum and performance presentation, and include reading and examination of folk worlds within the Ozarks context. Major genres covered may include ballad, legend, folk tale, and folk song.

**ENG 390 (490) Modern English Grammar.** 3(3-0) F,S.

Prerequisite: 60 hours. The structure of American English, with emphasis on current descriptive approaches to English grammar.

**ENG 405 (SEC) Teaching of Middle and High School English.** 3(2-2) F,S.

Prerequisite: 30 hours in English and admitted to teacher education program or permission of instructor. Techniques of teaching literature, the English language, and media as it relates to the English classroom; organization of teaching materials with particular emphasis on unit construction. A 20-hour field experience under the mentorship of an experienced classroom teacher is required. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take ENG 432 or ENG 433. This course may not be taken Pass/Not Pass.

**ENG 421 Advanced Technical Writing.** 3(3-0) F,S.

Prerequisite: ENG 321. Practice in project planning and management, document design, online documentation, web-page design, and usability testing. Students will develop a portfolio of polished writing projects. Emphasis on practical and marketable skills.

**ENG 434 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate Praxis II exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**ENG 455 African-American Drama.** 3(3-0) D.

Prerequisite: ENG 110; and 60 hours or permission of instructor. Study of intersections of dramatic art and politics including survey of theatrical styles such as realism, surrealism, agit-prop, and theatre-of-the-absurd. Will not count toward any General Education humanities requirement.

**ENG 473 Writing with Technology II.** 3(3-0) F.

Prerequisite: ENG 373. Builds on concepts students learn in ENG 373. Students will gain hands-on practice working with more-advanced tools and features that professional writers use to produce technical documents. Topics may include, but are not limited to, desktop publishing, online documentation, and single sourcing.

**ENG 483 Folklore and Literature.** 3(3-0) F.

Prerequisite: ENG 283. Reading and examination will emphasize folklore as a definitive characteristic of varied North American literary texts. Fictional, visual, and audio texts may be examined. This course will offer readings focusing on Folklore in Literature (e.g., Children's Literature, Local Color Literature), literature presenting immigrant, ethnic, and social groups of North American regions such as the Ozarks, Appalachians, or Maritimes, or other topics of student interest.

**ENG 485 Study of American Folklore.** 3(3-0) F.

Prerequisite: ENG 110. Introduction to what folklore is, its types, why it varies between folk worlds; basic folklore research methods. Influence of folklore on other forms of literature.

**ENG 487 Analysis of Scientific Literature.** 3(3-0) F.

Prerequisite: ENG 110; and 60 hours or permission of instructor. History and development of scientific writing. Stylistic analysis of prose passages.

**ENG 491 (591) History of the English Language.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Historical development of the English language from its Indo-European roots to present-day

American English. Considers written language as a source of evidence, language as a cultural artifact, and the dynamics of linguistic/cultural contact.

**ENG 494 (594) Dialects of American English.** 3(3-0) F.

Prerequisite: 60 hours. Regional, social, and ethnic variation in American English. Incorporates linguistic geography and sociolinguistic approaches, and considers relevant political and educational issues.

**ENG 500 Advanced Writing: Non-Fiction.** 3(3-0) F,S.

Prerequisite: ENG 220 or ENG 235 or ENG 321 or JRN 374 or JRN 375 or permission of instructor. Group discussion and criticism. Individual writing projects. Students lacking a course prerequisite must submit two manuscripts for consideration when applying for permission. May be organized around one or more of the following non-fiction genres: personal essay, journalism and magazine writing, stylistics, scholarly writing, technical and scientific writing. May be repeated for a total of 6 hours.

**ENG 501 Advanced Writing: Fiction.** 3(3-0) F.

Prerequisite: ENG 315 or permission of instructor. Group discussion and criticism. Individual writing projects. Students lacking the course prerequisite must submit two manuscripts for consideration when applying for permission to enroll in the course. May be repeated to a total of 6 hours.

**ENG 503 Advanced Writing: Poetry.** 3(3-0) F.

Prerequisite: ENG 303 or permission of instructor. Group discussion and criticism. Individual writing projects. Students lacking a course prerequisite must submit two manuscripts for consideration when applying for permission to enroll in the course. May be repeated to a total of 6 hours.

**ENG 505 (SEC) Methods in Teaching English to Speakers of Other Languages (TESOL).** 3(3-0) S.

Prerequisite: ENG 595. Contemporary approaches to teaching grammar, reading, writing, listening, and speaking for students who are learning English as a second language. Includes material design, development, and evaluation; student assessment; integration of all components into a unified TESOL curriculum.

**ENG 506 Advanced Writing: Drama.** 3(3-0) S.

Prerequisite: ENG 225 or permission of instructor. Group discussion and criticism. Individual writing projects. Students lacking a prerequisite must submit two manuscripts for consideration when applying for permission to enroll in the course. May be repeated to a total of 6 hours.

**ENG 508 Creative Writing Project.** 3(3-0) S.

Prerequisite: ENG 303 or ENG 315. Directed development of a substantial work of poetry, fiction, or non-critical prose, prepared for publication.

**ENG 510 Chaucer.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. *The Canterbury Tales* and other works by Chaucer; social, historical, literary, and linguistic background of late Middle Ages.

**ENG 512 (542) The British Novel.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Works by major figures in the development of the British novel, such as Fielding, Austen, Dickens, George Eliot, Hardy, Lawrence, and Woolf; major criticism of the genre.

**ENG 513 Shakespeare.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Selected plays and poems of Shakespeare, representative criticism, and Shakespeare's theatre and milieu.

**ENG 514 (545) British Drama.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Representative British plays from pre-Renaissance times to present, including such authors as Marlowe, Congreve, Wilde, and Shaw.

**ENG 516 (556) Mark Twain.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Twain's life and work (selected novels, short pieces, travelogues, autobiography, and criticism) studied as pivotal between an old and new America.

**ENG 517 (552) The American Novel.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Works by major figures in the development of the American Novel, such as Twain, James, Howells, Dreiser, Lewis, Hemingway, Faulkner, and Warren; major criticism of the genre.

**ENG 519 (554) American Drama.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Development of American Drama to the present; emphasis on 20th century, including

such authors as O'Neill, Wilder, Hellman, Williams, Miller, and Albee; major criticism of the genre.

**ENG 520 Composition and Rhetoric in High School and Junior College.** 3(3-0) F,S.

Prerequisite: ENG 235 and admitted to the teacher education program, or permission of the instructor. A survey of current writing and evaluation practices. Training in the teaching and evaluating of oral and written composition. The student will have an opportunity to examine methods currently taught in area high schools.

**ENG 521 Writing for Elementary and Middle School Teachers.** 3(3-0) F, S.

Prerequisite: 60 hours or permission of instructor. A course intended to develop the writing skills of prospective elementary and middle school teachers and to explore the means by which writing of elementary and middle school children can be encouraged, developed, and evaluated.

**ENG 523 Writing Center Theory and Practice.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Collaborative workshop designed to prepare individuals for teaching one-to-one in a writing center environment.

**ENG 525 History of Rhetoric.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Study of historical trends important to the development of written discourse and writing instruction. Survey of theory from classical antiquity through the nineteenth century.

**ENG 526 Modern Rhetorical Theory.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. A continuation of ENG 525. Study of twentieth-century rhetorical theory and its applications in literary criticism, literacy, technical writing, and/or composition.

**ENG 533 Studies in Children's Literature.** 3(3-0) D.

Prerequisite: 60 hours or permission of instructor. A study of significant themes (such as gender, ethnicity, or childhood) or genres (such as children's poetry, the picture book, and the literary folktale and historical fiction) in literature for the young. May be repeated when content varies.

**ENG 534 Historical Perspectives in Children's Literature.** 3(3-0) D.

Prerequisite: 60 hours or permission of instructor. Study of one or more periods in the historical development of children's literature, such as the Golden Age of children's classics, twentieth-century British children's literature, and the novels for children since 1950. May be repeated when content varies.

**ENG 536 (582) Young Adult Novel.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Study of various kinds of novels written for young people; includes historical perspectives; emphasizes developments since the "New Realism" of the 1960s.

**ENG 539 Advanced Writing for Children and Young Adults.**

3(3-0) S.

Prerequisite: ENG 339 or permission of instructor. Group discussion and criticism. Individual writing projects. Students lacking the course prerequisite must submit two manuscripts for consideration when applying for permission to enroll in the course.

**ENG 541 (515) Renaissance Literature.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Sidney, Spenser, Donne, Milton, and other major non-dramatic writers; literary developments, 1500-1660.

**ENG 543 (527) Restoration and 18th Century Literature.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Dryden, Swift, Pope, Johnson, and other significant writers; literary developments, 1660-1798.

**ENG 544 (531) British Romantic Literature.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Blake, Wollstonecraft, Dorothy Wordsworth, William Wordsworth, Coleridge, Byron, Mary Shelley, Percy Bysshe Shelley, Keats; cultural backgrounds and literary developments, 1798-1837.

**ENG 546 (535) Victorian Literature.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Tennyson, Browning, the Rossetis, Hardy, and other British Victorian writers; literary developments, 1837-1901.

**ENG 547 Modern British Literature.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Significant works from several genres by authors such as Conrad, Yeats, Greene, Lessing, and Stoppard; literary developments, 1901 present.

**ENG 548 Major British Authors.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Study of several major works by one or two British writers, such as Marlowe and Jonson, Johnson and Boswell, George Eliot and Hardy, Yeats and T. S. Eliot, Amis and Larkin; the intellectual milieu of their works.

**ENG 553 American Romantic Literature.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Significant works from several genres by authors such as Cooper, Poe, Irving, Thoreau, Emerson, Hawthorne, Melville, and Whitman; literary developments to 1855.

**ENG 557 American Realism.** 3(3-0) S.

Prerequisite: 60 hours or permission of instructor. Significant works from several genres by authors such as Twain, Howells, James, Crane, and Frost; literary developments, 1855-1914.

**ENG 558 Major American Authors.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Study of several major works by one or two writers, such as Emerson and Thoreau, Frost and Dickinson, Sexton and Lowell; the intellectual milieu of their works. May be repeated when content varies.

**ENG 559 Modern American Literature.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Significant works from several genres by authors such as Fitzgerald, Hemingway, Lowell, Roethke, Bellow, and O'Connor; literary developments, 1914-present.

**ENG 565 Literature and Language Workshop.** 1-3 Su.

Prerequisite: senior or graduate standing and permission of the Director of Graduate Studies in English. Variable topics related to the use of writing and story especially in the classroom. Number of class hours determined by length of workshop. May be repeated for a total of 6 credit hours.

**ENG 568 Major World Authors.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Study of several major works by one or two writers, such as Aristophanes and Sophocles; Ibsen and Strindberg; the intellectual milieu of their works. May be repeated when content varies.

**ENG 574 Technical Writing Internship.** 3(3-0) F,S.

Prerequisite: ENG 421 and permission of instructor. Projects in technical writing, combining academic training and supervised work experience in business and industry. Students are required to work a minimum of 135 hours.

**ENG 580 Gender Issues in Language and Literature.** 3(3-0) F,S.

Prerequisite: ENG 110; and 60 hours or permission of instructor. Consideration of gender issues from the standpoint of literary history, genre, composition/rhetoric, linguistics, or feminist theory. May be repeated to a total of 6 hours if topic is different.

**ENG 583 Themes in Folkloristics.** 3(3-0) F,S.

Prerequisite: 60 hours and permission of the instructor. A topical course investigating the relationship of folklore and daily life through reading and examination of the field and its genres as a global discipline. Consideration of lived-environments such as occupational, educational, and popular culture settings or themes. May be repeated to a total of 9 hours, if topic is different.

**ENG 585 History of Literary Criticism.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. A survey of the theories of literary critics, such as Sidney, Pope, Coleridge, Eliot, Brooks, Barthes, Eagleton, Kristeva, and Derrida.

**ENG 590 Grammatical Analysis.** 3(3-0) S.

Prerequisite: 60 hours and ENG 296 or ENG 390. Advanced study of English morphology and syntax using a variety of current approaches, such as phrase-structure, transformational, discourse-based, and semantic-based grammars.

**ENG 592 Sociolinguistics for Language Teaching.** 3(3-0) F.

Prerequisite: 60 hours and ENG 296 or ENG 390. Various sociolinguistic topics, with an emphasis on those relevant for language teaching, such as language attitudes; standard languages; literacy; language variation; multilingualism; language planning and policy; language maintenance and loss.

**ENG 593 Studies in Linguistics.** 3(3-0) F.

Prerequisite: ENG 390 and 60 hours. Topics in linguistics such as history of linguistics, language acquisition, or transformational grammars. May be repeated to a total of 9 hours if topic is different.

**ENG 595 Principles of Second Language Acquisition.** 3(3-0)F.

Prerequisite: ENG 296 and 60 hours. The processes of both first and second language acquisition, with an emphasis on Teaching English to Speakers of Other Languages (TESOL) and bilingualism. Includes the theory behind and history of TESOL methodologies, as well as contemporary theoretical issues in TESOL.

**ENG 596 Materials and Assessment in Teaching English to Speakers of Other Languages (TESOL).** 3(3-0) S.

Prerequisite: ENG 296 and 60 hours. Practical and theoretical perspectives in specific areas in TESOL, including speaking, grammar, composition, and critical reading. Consideration of material design and student assessment.

**ENG 597 Practicum in Teaching English to Speakers of Other Languages (TESOL).** 3(1-3)F,S.

Prerequisite: ENG 595. Application of coursework in TESOL with individualized experience based on students' needs and background, especially in composition, grammar, and pronunciation.

**ENG 598 Early English Language and Literature.** 3(3-0) F.

Prerequisite: 60 hours or permission of instructor. Special topics in Old and Middle English language and literature, including an understanding of the linguistic structure of early English, experience in working with a variety of medieval English texts, and application of various linguistic and literary theories to the study of Old and Middle English writing. May be repeated to 6 hours if topic is different. Will not count toward any General Education humanities requirement or toward teacher certification.

***The following courses are open only to graduate students.*****ENG 600 Problems and Methods of Research in English.** 3(3-0)F.

Use of bibliographical tools; writing documented investigation and interpretation of literature.

**ENG 603 Practicum in Teaching Composition.** 1-3, F, S.

Writing, evaluation of student essays, discussion of current theory and practice in teaching college composition. Credit from this course will not count toward the MA in English or the MS in Ed (ENG) degrees. Required of graduate teaching assistants their first two semesters of appointment. May be repeated up to 6 hours.

**ENG 608 Creative Writing Project II.** 3(3-0) S.

Prerequisite: permission of instructor. Directed development of a substantial work of poetry, fiction, or non-critical prose. This work may be submitted as a degree paper in partial fulfillment of the research requirement in English.

**ENG 610 (653) Seminar: Fiction.** 3(3-0) F,S.

Significant genres, authors, and developments in prose fiction. May be repeated to a total of 9 hours if topic is different.

**ENG 611 (676) Seminar: Poetry.** 3(3-0) F,S.

Significant genres, authors, and developments in poetry. May be repeated to a total of 9 hours if topic is different.

**ENG 612 Seminar: Drama.** 3(3-0) S.

Detailed study of selected plays and dramatists. May be repeated to a total of 9 hours if topic is different.

**ENG 620 (602) Seminar: Composition Theory.** 3(3-0) F.

Detailed study of contemporary composition theory in university freshman writing. Open to all graduate students. Graduate teaching assistants must take ENG 620 during their first year of appointment, unless they have taken ENG 520 as undergraduates.

**ENG 621 Theory of Basic Writing.** 3(3-0) S.

Study of issues, problems, and pedagogical strategies appropriate to teaching composition to students with limited English proficiency.

**ENG 622 Literacy Theory and Composition.** 3(3-0) F.

An introduction to literacy theory and its application to the teaching of composition.

**ENG 625 (660) Seminar: Composition and Rhetoric.** 3(3-0) S.

Topics in the application of rhetorical theory to the teaching of writing.

**ENG 626 Issues in Rhetorical/Professional Writing.** 3(3-0) F.

Study of some aspect of rhetorical/professional writing not ordinarily offered in the curriculum. Students read, discuss, and write about selected books or other documents related to the field. May be repeated to a total of 9 hours if topic is different. Variable Content Course.

**ENG 635 Seminar: Children's Literature.** 3(3-0) F,S.

Detailed study of selected works, authors, or themes in children's/young adult literature. May be repeated to a total of 9 hours if topic is different. Variable Content Course.

**ENG 644 (624) Seminar: English Literature Before 1798.** 3(3-0) F,S.

Detailed study of selected works, authors, or themes in English literature up to the Romantic Movement. May be repeated to a total of 9 hours if topic is different.

**ENG 648 (638) Seminar: English Literature After 1798.** 3(3-0) F,S.

Detailed study of selected works, authors, or themes in English literature since 1798, including the Romantic Movement. May be repeated to a total of 9 hours if the topic is different.

**ENG 657 Seminar: Early American Literature.** 3(3-0) F,S.

Detailed study of selected works, authors, or themes in American Literature to 1900. May be repeated to a total of 9 hours if topic is different.

**ENG 658 Seminar: 20th Century American Literature.** 3(3-0) F,S.

Detailed study of selected works, authors, or themes in American Literature, 1900 to the present. May be repeated to a total of 9 hours if topic is different.

**ENG 670 The Teaching of Technical and Professional Writing.** 3(3-0) S.

Theory and practice of teaching college courses in technical and professional writing. Some consideration of in-service writing courses for business, science, industry, and government.

**ENG 671 Professional Writing.** 3(3-0) F.

Theory and practice of writing and analyzing documents in business, science, and industry.

**ENG 673 Writing for the Computer Industry.** 3(3-0) S.

Study and practice in developing readable computer system documentation; includes formatting, graphic design, text organization, user testing.

**ENG 675 Designing Technical Documents.** 3(3-0) S.

Producing, analyzing, and adapting technical documents to meet the needs of diverse clients.

**ENG 677 Scientific and Technical Editing.** 3(3-0) S.

Current practices in editing and electronic publishing. Group and individual projects involving diverse fields, audiences, and formats; topics include copyediting, content editing, usability editing, author-editor relations, and the production process.

**ENG 680 (655) Seminar: Intellectual Backgrounds of Literature in English.** 3(3-0) F,S.

Relation of basic intellectual and social ideas to the form, content, production/publication, and distribution of selected literary works or genres. May be repeated to a total of 9 hours if topics are different.

**ENG 681 Rhetorical Criticism.** 3(3-0) S.

Study of rhetorical and metalinguistic approaches to analyzing literature, with applications of theory to particular works.

**ENG 685 Seminar: Critical Theories.** 3(3-0) S.

Literary criticism, with emphasis upon modern, critical practice; application of theory to particular problems. May be repeated to a total of 9 hours if topic is different.

**ENG 686 Seminar: Form and Theory of Poetry and Prose.** 3(3-0) F.

Designed for creative writers. Detailed study of traditional literary forms in poetry, drama, or fiction and the new forms that have grown out of them. Discussion of interaction between structure and content. Variable Content Course.

**ENG 692 Linguistics in Rhetoric and Composition.** 3(3-0) S.

Applications of linguistic models to rhetorical theory and/or the teaching of composition.

**ENG 693 Seminar: Linguistics.** 3(3-0) S.

Topics in historical, theoretical, or applied linguistics. May be repeated to a total of 9 hours if topic is different.

**ENG 699 Thesis.** 1-6, F,S.

Prerequisite: permission of the Director of Graduate Studies in English.

## Linguistics Program

106 Craig Hall, Phone: 836-5247, FAX: 836-6940

Administrator: TBA

### Minors

#### Linguistics

##### Bachelor of Arts

- A. ENG 296(3) or ANT 280(3)
- B. Complete 12 hours from the following courses: ANT 380(3)\*, CSD 210(3), CSD 312(3), ENG 390(3), ENG 491(3), ENG 494(3), ENG 590(3), ENG 592(3), ENG 593(3)\*, FRN 313(3), PHI 397(3)\*\*, REL 510(3)\*\*, REL 520(3)\*\*. Other courses may be substituted with approval of committee. No more than 12 hours of the 15-hour minor may be taken from any one department. No more than 3 hours may also count for a major or general education requirement.
- \* *Variable Content Course; up to 9 hours may be applied to the minor when the topic changes.*
- \*\* *Variable Content Course; when applicable, up to 9 hours may be applied to the minor when the topic changes; applicability to be determined by the committee.*

#### Linguistics

##### Bachelor of Science

##### Bachelor of Science in Education (Non-Certifiable)

- A. ENG 296(3) or ANT 280(3)

- B. Complete 12 hours from the following courses: ANT 380(3)\*, CSD 210(3), CSD 312(3), ENG 390(3), ENG 491(3), ENG 494(3), ENG 590(3), ENG 592(3), ENG 593(3)\*, FRN 313(3), PHI 397(3)\*\*, REL 510(3)\*\*, REL 520(3)\*\*. Other courses may be substituted with approval of committee.
- C. At least 6 hours of a foreign language, and/or American Sign Language. A student may take 3 hours each of two different languages. No more than 12 hours of the 21-hour minor may be taken from any one department. No more than 3 hours may also count for a major or general education requirement.
- \* *Variable Content Course; up to 9 hours may be applied to the minor when the topic changes.*
- \*\* *Variable Content Course; when applicable, up to 9 hours may be applied to the minor when the topic changes; applicability to be determined by the committee.*

**Administration of the Program.** The minor is housed in the College of Arts and Letters. The Linguistics Committee administers the program, provides advisement, and considers requests for elective substitutions. The committee consists of five faculty members who teach courses in the minor, appointed by the Vice President for Academic Affairs. The chair of the committee, elected by committee members, signs applications to degree program and, after consultation with committee members, approves course substitutions.

## Department of Modern and Classical Languages

376 Craig Hall, Phone: 836-5122, FAX: 836-7626

Email: MCL@missouristate.edu, Department Web Site: <http://www.missouristate.edu/mcl>

**Department Head:** Associate Professor Madeleine Kernen, Ph.D.

**Professors:** Edwin Carawan, Ph.D.; Carol Anne Costabile-Heming, Ph.D.; Roger Dowdy, Ph.D.; Larry L. George, Ph.D.; Mary Harges, Ph.D.; Joseph J. Hughes, Ph.D.; Curtis P. Lawrence, Ph.D.; Robert L. Norton, Ph.D.; Pauline Nugent, Ph.D.

**Associate Professors:** Julie A. Johnson, Ph.D.; David Lee, Ph.D.; Arthur L. Spisak, Ph.D.

**Assistant Professors:** Jason R. Jolley, Ph.D.; Pedro Koo, Ph.D.; Judith Martin, Ph.D.; Brenda Watts, Ph.D.

**Emeritus Professors:** Robert J. Berndt, Ph.D.; William Holman, Ph.D.; Gisela F. Kopp, Ph.D.; Lyle R. Polly, Ph.D.; James R. Woodward, M.A.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – French, B.S.Ed., German, B.S.Ed., Latin, B.S.Ed., Spanish, B.S.Ed., Secondary Education/French, M.S.Ed., Secondary Education/German, M.S.Ed., Secondary Education/Latin, M.S.Ed., and Secondary Education/Spanish, M.S.Ed.

The department offers courses designed to give students the fundamentals of each language and to introduce them to the culture and literature of the people whose language is being studied. Some languages may only be offered as resources permit. Intensive Spanish programs in Mexico and Spain and an intensive French program in Quebec are offered during the summer.

A well-equipped foreign language laboratory offers opportunities for practice in comprehension and speaking. The Dr. Anna Lou Blair Language Media Room offers satellite feed and computer interconnections abroad. Laboratory practice is required of all students in modern language courses 101, 102 and 201.

### Placement

Students who have studied a foreign language before entering this university should consult the Modern and Classical Languages Department before scheduling for courses.

**Examinations:** Students of French, German, or Spanish who have two years or more of high school study in those languages or university credit for high school courses, should take the departmental placement examination prior to enrolling in any French, German, or Spanish classes. The exam is computerized and takes approximately twenty minutes to determine placement level.

**Credit-by-Examination for Placement:** The department offers credit-by-examination for placement for French, German, and Spanish courses of 101, 102 and 201. Credit is given provided the student takes the computerized Placement Examination *before* taking any university-level French, German, or Spanish classes and completes the highest level of placement with a minimum grade of 'B'. The student may then apply to the department to receive credit for courses in the same language below the placement level.

Students of foreign languages other than French, German, and Spanish should contact the head of the department to check for availability of additional language placement exams. To receive credit-by-examination, the same guidelines as indicated above will be applied.

Native speakers of non-English languages should consult with the department prior to enrolling in courses.

### General Education Courses

LLT 121 may be used to satisfy the Culture and Society Area of Inquiry-Humanities Perspective. LLT 180 may be used to satisfy the Self-Understanding Area of Inquiry-Humanities Perspective.

### Bachelor of Arts Degree Requirements

**Language Requirement:** All students pursuing a bachelor of arts degree must complete 12 hours in one language selected from courses within the Department of Modern and Classical Languages numbered 101 through 205, and 320 or above. The language selected must not be the student's native language. Consult with the Department of Modern and Classical Languages regarding any exceptions or substitutions. Six hours of foreign language requirement will be waived toward this Bachelor of Arts requirement for successful completion of two years of high school study of the language on which the waiver is to apply. This waiver is a substitute for courses 101 and 102 or their equivalents in the language used to meet the above requirements. This waiver does not reduce the total number of hours required for any degree program.

**Fine Arts Requirement:** All students pursuing a bachelor of arts degree must complete 6 hours of fine arts courses which *cannot* also be used to meet general education requirements. Literature courses in this department will count toward this fine arts requirement provided those courses have not also been used to meet the foreign language requirement. Applicable literature courses are: LLT 121, 180, 215, 225, 240, 271, 296, 321, 325, 326; FRN 381, 382, 412, 422, 435, 444, 454; GRM 325, 400, 455, 465, 475; GRK 301, 302, 498; LTN 450, 451, 460, 461, 470, 471; SPN 430, 450, 460.

## Majors

### Antiquities (Comprehensive)

#### Bachelor of Arts

A. General Education Requirements - see "Academic Programs and Requirements" section of catalog

B. Major Requirements (45 hours)

The comprehensive major in Antiquities consists of courses in three fields: Classical Studies, Near Eastern, or New World Studies. The major consists of concentrations in Classical, Near Eastern, or New World Studies with totals of 24 hours in any one of these fields and 12 hours more in either of the two remaining fields. Additional courses (9 hours) to total 45 hours are to be chosen from any of the three fields. *In addition to the 45 hours, all majors must complete ANT 250.*

1. **Primary Concentration** (24 hours): complete one primary concentration.

a. **Classical Studies Concentration:** complete LLT 325 and LLT 326. The remaining 18 hours will be selected from within each of the following groups:

(1) *Language Studies (9-12 hours):* Select 3 courses from the Latin or Greek sequence above 102, including at least one course at the 300 level or above

(2) *Historical Studies (6-9 hours):* Select from HST 341, 343; REL 571

(3) *Cultural Studies (3-6 hours):* Select from LLT 121, 180\*, 240, 321; PHI 306; ART 474

(4) *Assessment for major:* MCL 499\*

*\*when applicable*

b. **Near Eastern Studies Concentration:** choose from among the following courses with at least one course chosen from each group:

(1) Any course in GRK or HBW above 102; or LLT 580

(2) HST 370, 541, 542, 597\*; REL 350

(3) ANT 335, 540, 451\*, 453\*, 454\*, 596\*, 599\*; REL 570, 571

(4) LLT 321; REL 101, 102, 312, 320, 321, 362, 397\*, 510, 520

(5) REL 580 (assessment for major)\*

*\*when applicable*

c. **New World Studies Concentration:** complete one of the following tracks:

(1) **Native American Studies Track:** All persons choosing this track must complete ANT 325, 350, and 360. At least one course will be chosen from each of the following groups (15 hours):

- (a) *Archaeological Research*: ANT 340, 451\*, 453\*, 454\*, 596\*, 599\*
- (b) *Environmental/Technical Studies*: AGA 215, 425; BIO 369; GRY 300, 301, 348; SOC 302
- (c) *Native American Studies*: ANT 330\*; ART 385, 485; HST 331, 350, 509, 510; REL 315
- (d) *Cultural Studies*: ANT 226, 301, 397\*; ENG 485
- (e) *Assessment for Major*: ANT 599\*

**\*when applicable**

- (2) **New World Historical Archaeology Track**: All persons choosing this track must complete ANT 350. At least one course will be chosen from each of the following groups (21 hours):

- (a) *Research in Historic Archaeology*: ANT 360, 397\*, 453\*, 454\*, 596\*, 599\*

**\*course must be in historical archaeology**

- (b) *Cultural Studies*: ANT 226, 325, 397\*; ENG 485; SOC 314
- (c) *Historical Studies*: HST 331, 350, 375, 390, 496\*, 509, 510, 518
- (d) *Environmental Studies*: GRY 300, 301, 320; HST 515
- (e) *Technical Skills*: ART 255; GRY 275, 360, 363; SOC 302, 345
- (f) *Assessment for Major-when applicable*: ANT 599\*

**\*course topic must be in New World Studies**

2. **Secondary Concentration** (12 hours): Complete one secondary concentration different from the primary concentration selected above.
  - a. **Classical Studies**: complete two courses from the Latin or Greek sequence, plus two courses from: LLT 321, 325, 326; HST 341, 343; PHI 306; REL 571
  - b. **Near Eastern Studies**: choose courses from at least two of the groups listed in the 24 hour concentration
  - c. **New World Studies**: complete ANT 325 and/or ANT 360, plus courses from the Historical Studies group (HST 331, 350, 375, 390, 509, 510, 518) and from one other group
3. **Additional Course Selections** (9 hours):  
An additional 9 hours, making a total of 45 hours, may be chosen from any of the groups in Classical Studies, Near Eastern Studies, or New World Studies
- C. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

**Administration of the program.** The Administrator of Antiquities is responsible for the administration of the program with the assistance of the faculty Antiquities Committee. It is the responsibility of the student's academic advisor (who is a member of the Antiquities Committee) to approve the student's degree program. The approved program, including evaluation of transfer credits, is submitted to the Coordinator for final approval. All agreements are filed as a part of the student's degree program. Any alteration of the program must be approved by the Antiquities Committee. Drop and add will be handled by the major advisor, provided that the student's degree program is not altered.

## French (Non-Comprehensive) Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  1. Complete 30 hours beyond FRN 102 in consultation with advisor. Twelve hours of upper division courses are required for all majors including at least six hours of 400 or 500 level courses.
  2. MCL 499(0)
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## French (Non-Comprehensive) Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  1. Complete 30 hours beyond FRN 102 in consultation with advisor. Twelve hours of upper division courses are required for all majors including at least six hours of 400 or 500 level courses.
  2. MCL 499(0)
- C. Minor Required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## French Bachelor of Science in Education (Certifiable grades K-12)

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  1. Complete 30 hours beyond FRN 102 in consultation with advisor. Twelve hours of upper division courses are required for all majors including at least six hours of 400 or 500 level courses.
  2. MCL 499(0)
- C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6) and see "Academic Programs and Requirements/Secondary Education" section of catalog.
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## German (Non-Comprehensive) Bachelor of Arts

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  1. Complete 30 hours beyond GRM 102. Twelve hours of upper division courses are required for all majors including at least six hours of 400 or 500 level courses. A maximum of six hours may be taken in LLT 225 and LLT 271 with advisor approval.
  2. MCL 499(0)
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## German (Non-Comprehensive) Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  1. Complete 30 hours beyond GRM 102. Twelve hours of upper division courses are required for all majors including at least six hours of 400 or 500 level courses. A maximum of six hours may be taken in LLT 225 and LLT 271 with advisor approval.
  2. MCL 499(0)
- C. Minor Required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

**German****Bachelor of Science in Education  
(Certifiable grades K-12)**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  - 1. Complete 30 hours beyond GRM 102. Twelve hours of upper division courses are required for all majors including at least six hours of 400 or 500 level courses. A maximum of six hours may be taken in LLT 225 and LLT 271 with advisor approval.
  - 2. MCL 499(0)
- C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6) and see "Academic Programs and Requirements/Secondary Education" section
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

**Latin****(Non-Comprehensive)****Bachelor of Arts**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (32 hours)
  - 1. Complete 32 hours beyond LTN 101 and 102 in consultation with advisor, including two hours of LTN 480. Either LLT 121 or LLT 321, and either LLT 326 or HST 343 may be counted as part of the 32 hours required for the Latin major.
  - 2. MCL 499(0)
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

**Latin****Bachelor of Science in Education  
(Certifiable grades K-12)**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (32 hours)
  - 1. Complete 32 hours beyond LTN 101 and 102 in consultation with advisor, including two hours of LTN 480. Either LLT 121 or LLT 321, and either LLT 326 or HST 343 may be counted as part of the 32 hours required for the Latin major.
  - 2. MCL 499(0)
- C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6) and see "Academic Programs and Requirements/Secondary Education" section of catalog
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

**Spanish****(Non-Comprehensive)****Bachelor of Arts**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  - 1. SPN 325(3), 326(3), 450(3), 460(3)
  - 2. Three additional hours in Spanish numbered 400 or above
  - 3. Additional Spanish electives beyond 102 to bring total to at least 30 hours. No more than three hours of SPN 301, 302, or 303 may count.
  - 4. MCL 499(0)
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

**Spanish****(Non-Comprehensive)****Bachelor of Science**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  - 1. SPN 415(3)
  - 2. Six hours in Spanish numbered 400 or above
  - 3. Three additional hours in Spanish numbered 300 or above
  - 4. Additional Spanish electives beyond 102 to bring total to at least 30 hours. No more than three hours of SPN 301, 302, or 303 may count.
  - 5. MCL 499(0)
- C. Minor Required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

**Spanish****Bachelor of Science in Education  
(Certifiable grades K-12)**

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (30 hours)
  - 1. SPN 205(3) or 210(3); 312(3), 325(3), 326(3), 450(3), 460(3)
  - 2. Three additional hours in Spanish numbered 400 or above
  - 3. Additional Spanish electives beyond 102 to bring total to at least 30 hours. Study abroad and service learning are highly recommended. No more than three hours of SPN 301, 302, or 303 may count.
  - 4. MCL 499(0)
- C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6) and see "Academic Programs and Requirements/Secondary Education" section of catalog
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

**Minors****Ancient Greek, French, Latin, Spanish  
Bachelor of Arts**

Complete 18 hours in one language beyond courses 101 and 102 in consultation with advisor. Six hours of upper division courses are required for all B.A. minors. LLT 121 and LLT 325 may be counted as part of the 18 hours required for the Ancient Greek minor.



## Antiquities Bachelor of Arts Bachelor of Science

- A. ANT 250(3)
- B. Complete 15 hours from the following areas. No more than nine hours of the 18 hour minor may be taken from any one department and at least one course must be taken from each area.
1. Classical Studies: HST 341(3), 343(3), 597(3)\*; LLT 121(3), 240(3), 321(3), 325(3), 326(3); LTN or GRK above 102; PHI 306(3); REL 571(3)
  2. Near Eastern Studies: ANT 335(3), 540(3); HST 541(3), 542(3), 597(3)\*; REL 101(3), 102(3), 312(3), 320(3), 321(3), 350(3), 362(3), 397(3)\*, 510(3), 520(3), 570(3), 571(3), HBW above 102
  3. New World Studies: ANT 325(3), 360(3), 397(1-3)\*, 451(3-6)\*, 599(1-3)\*; ART 385(3), 485(3); HST 350(3), 509(3), 510(3); REL 315(3)
- \*when applicable*

**Administration of the program.** The Administrator of Antiquities is responsible for the administration of the program with the assistance of the faculty Antiquities Committee. It is the responsibility of the student's academic advisor (who is a member of the Antiquities Committee) to approve the student's degree program. The approved program, including evaluation of transfer credits, is submitted to the Administrator for final approval. All agreements are filed as a part of the student's degree program. Any alteration of the program must be approved by the Antiquities Committee. Drop and add will be handled by the major advisor, provided that the student's degree program is not altered.

## French, German, Latin, Spanish Bachelor of Science

Complete 12 hours in one language beyond courses 101 and 102 in consultation with advisor.

## French, Latin, Spanish Bachelor of Science in Education (Non-Certifiable)

- A. Complete 24 hours in one language beyond courses 101 and 102 in consultation with advisor. Twelve hours of upper division courses are required for all B.S.Ed. minors.
- B. MCL 413, Teaching of Foreign Languages, is required for state certification. 101 and 102 may be counted towards the 30 hours required for certification.
- C. In order to meet Missouri state teacher certification requirements, all candidates for the Bachelor of Science in Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area which includes all courses required for the minor.

## German Bachelor of Arts

Complete 18 hours in German beyond 101 and 102 in consultation with advisor. Three (3) hours of either LLT 225 or LLT 271 may be counted on this minor.

## German Bachelor of Science in Education (Non-Certifiable)

- A. Complete 24 hours in German beyond 102 in consultation with advisor. Three (3) hours of either LLT 225 or LLT 271 may be counted on this minor. Twelve hours of upper division courses are required of all Bachelor of Science in Education minors.
- B. MCL 413, Teaching of Foreign Languages, is required for state certification. 101 and 102 may be counted towards the 30 hours required for certification.
- C. In order to meet Missouri state teacher certification requirements, all candidates for the Bachelor of Science in Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area which includes all courses required for the minor.

## Spanish Proficiency Bachelor of Science

SPN 201(3), 202(3), 205(3), 312(3), and 415(3)

## Graduate Programs

The Master of Science in Education degree (secondary education major) offers areas of emphasis in French, German, Latin, and Spanish. See Graduate Catalog for details.

## Chinese Courses

*These courses can only be offered as resources permit.*

### CHI 101 Elementary Chinese I. 3(3-0) D.

Essentials of grammar through aural-oral practice, dictation, reading and writing. Course conducted in Mandarin Chinese as far as practicable.

### CHI 102 Elementary Chinese II. 3(3-0) D.

Prerequisite: C or better in CHI 101 or permission of instructor. Continuation of CHI 101.

### CHI 201 Intermediate Chinese III. 3(3-0) D.

Prerequisite: C or better in CHI 102 or permission of instructor. Continuation of CHI 102 with emphasis on reading, conversation, and an introduction to Chinese history and culture.

### CHI 202 Intermediate Chinese IV. 3(3-0) D.

Prerequisite: C or better in CHI 201 or permission of instructor. Continuation of CHI 201 with emphasis on reading, conversation, history, and culture.

### CHI 215 Business and Professional Chinese. 3(3-0) D.

Prerequisite: CHI 202 or above, or permission of instructor. Introduction to Chinese language and culture as used in business and selected professions. May be repeated once with different content. Variable Content Course.

### CHI 297 Special Topics in Chinese. 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Chinese studies, including travel courses to Chinese-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

### CHI 311 Chinese Reading and Conversation. 3(3-0) D.

Prerequisite: CHI 202 or permission of instructor. A course designed to develop and refine students' conversational and reading skills through short speeches, group discussion, free conversation and reading. Variable Content Course.

## French Courses

### FRN 101 Elementary French I. 3(3-0) F,S.

Essentials of French language emphasizing the development of speaking, listening, reading, and writing within a culturally relevant context. Credit-by-exam is available.

### FRN 102 Elementary French II. 3(3-0) F,S.

Prerequisite: C or better in FRN 101 or permission of instructor. Continuation of FRN 101. Credit-by-exam is available.

### FRN 201 Intermediate French I. 3(3-0) F,S.

Prerequisite: C or better in FRN 102 or permission of instructor. Francophone culture through discussion of readings, films and music. Credit-by-exam is available.

### FRN 202 Intermediate French II. 3(3-0) F,S.

Prerequisite: C or better in FRN 201 or permission of instructor. A focus on literacy through compositions and readings in francophone culture.

### FRN 297 (205) Special Topics in French. 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in French studies, including travel-courses to French-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

### FRN 300 Service Learning in French. 1 F,S.

Prerequisite: 30 hours and concurrent registration in a French course at the 202 level or above. This service learning component for the existing French curriculum incorporates community service with class-



room instruction to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service providing instruction or other community service in the Springfield-area schools and other community groups. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**FRN 311 French Conversation.** 3(3-0) D.

Prerequisite: FRN 202 or permission of instructor. Oral practice in short speeches, group discussion and free conversation. May be repeated, as content changes, to a maximum of 6 hours. Variable Content Course.

**FRN 312 French Grammar and Composition.** 3(3-0) D.

Prerequisite: FRN 202 or permission of instructor. Review of French grammar with writing practice.

**FRN 313 French Language Awareness.** 3(3-0) D.

Prerequisite: FRN 202 or permission of instructor. Study of phonetics and of the socio-cultural history of the French language. Recommended for teachers.

**FRN 326 French Civilization.** 3(3-0) D.

Prerequisite: FRN 202 or permission of instructor. History and culture of France and francophone countries; includes geography, philosophy and arts. May be repeated, as content changes, to a maximum of 6 credit hours. Variable Content Course.

**FRN 381 French Literature from the Middle Ages to the Enlightenment.** 3(3-0) D.

Prerequisite: FRN 312 or permission of instructor. A survey of authors, movements, ideas, and styles, e.g., Villon, Montaigne, Rabelais, Pascal, Rousseau.

**FRN 382 French Literature of the 19th and 20th Centuries.** 3(3-0) D.

Prerequisite: FRN 312 or permission of instructor. A survey of representative work, e.g., Hugo, Flaubert, Camus.

**FRN 412 Le Cinéma francophone.** 3(3-0) D.

Prerequisite: FRN 381 or FRN 382 or permission of instructor. A study of culture, language, and literature through francophone film. Repeatable up to 6 hours. Variable Content Course.

**FRN 415 (315) Professional French.** 3(3-0) D.

Prerequisite: FRN 311 or higher, or permission of instructor. Social and business interactions in the francophone world. May be repeated, as content changes, to a maximum of 6 credit hours. Variable Content Course.

**FRN 422 Le Théâtre francophone.** 3(3-0) D.

Prerequisite: FRN 381 or FRN 382 or permission of instructor. A thematic approach to francophone drama, covering such playwrights as Molière, Sartre, and Racine. Repeatable up to 6 hours. Variable Content Course.

**FRN 435 Littérature francophone.** 3(3-0) D.

Prerequisite: FRN 381 or FRN 382 or permission of instructor. A thematic approach to francophone literatures. Repeatable up to 6 hours. Variable Content Course.

**FRN 444 Chanson et poésie.** 3(3-0) D.

Prerequisite: FRN 381 or FRN 382 or permission of instructor. A thematic approach to francophone song and poetry, covering such writers as Brecht, Piaf, Rimbaud, Brassens. Repeatable up to 6 hours. Variable Content Course.

**FRN 454 Histoire du roman.** 3(3-0) D.

Prerequisite: FRN 381 or FRN 382 or permission of instructor. A thematic approach to the French novel and short story, covering such writers as LaFayette, Balzac, Maupassant, LeClézio. Repeatable up to 6 hours. Variable Content Course.

**FRN 498 (490) Seminar Course in French.** 1-3, D.

Prerequisite: permission of instructor and department head. Supervised independent study in literature, linguistics or other restricted topics. May be repeated for maximum of 6 hours.

**FRN 525 Seminar in Francophone Literature.** 3(3-0) D.

Prerequisite: 60 hours and permission of instructor and department head. Selected topics in Francophone literature such as genre studies, period studies or concentration on one or more authors. Variable Content Course. May be repeated once with changed content.

**FRN 535 Advanced French Composition and Conversation.** 3(0-3) D.

Prerequisite: FRN 311 and FRN 312 or permission of instructor and department head. A study of French grammar, style and modes of expression. Designed to further develop the mastery of written and spoken French.

## German Courses

**GRM 101 Elementary German I.** 3(3-0) F,S.

The primary goal of GRM 101 is to help students develop proficiency in the four communication skills: listening, reading, speaking and writing. These skills are essential to effective communication in the target language. Credit-by-exam is available.

**GRM 102 Elementary German II.** 3(3-0) F,S.

Prerequisite: C or better in GRM 101 or permission of instructor. The primary goal of GRM 102 is to help students develop additional proficiency in the four communication skills: listening, reading, speaking, and writing. These skills are essential to effective communication in the target language. Credit-by-exam is available.

**GRM 201 Intermediate German I.** 3(3-0) F,S.

Prerequisite: C or better in GRM 102 or permission of instructor. The primary goal of GRM 201 is the systematic review, expansion, and synthesis of the four skill areas. Communicative skills will be enhanced by providing a thorough review of fundamentals of grammar through real-life language use, reading, and composition. Credit-by-exam is available.

**GRM 202 Intermediate German II.** 3(3-0) F,S.

Prerequisite: C or better in GRM 201 or permission of instructor. Continuation of the development of the four skills through conversation, composition and readings as a means to access culture.

**GRM 297 (205) Special Topics in German.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in German studies, including travel-courses to German-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

**GRM 300 Service Learning in German.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a German course at the 202 level or above. This service component for the existing German curriculum incorporates community service with classroom instruction to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service providing instruction or other community service in the Springfield-area schools and other community groups. May be repeated but no more than 2 hours of service learning may count toward graduation.

**GRM 301 Intensive Grammar Review.** 1-3, D.

Prerequisite: GRM 102 or permission of instructor. Intensive grammar review of selected topics. May be repeated with different topics to a maximum of 3 credit hours. Variable Content Course.

**GRM 302 Topics in German(ic) Culture.** 1-3, D.

Prerequisite: GRM 102 or permission of instructor. Selected topics in culture and travel. May be repeated with different topics to a maximum of 3 credit hours. Variable Content Course.

**GRM 303 Language and Technology.** 1-3, D.

Prerequisite: GRM 102 or permission of instructor. Issues concerning German and technology. May be repeated with different topics to a maximum of three credit hours. Variable Content Course.

**GRM 304 Conversational Strategies.** 1-3, D.

Prerequisite: GRM 201 or permission. This course will introduce students to strategies for conversing in the target language. Emphasis will be placed on building vocabulary, developing listening comprehension skills, learning how to construct discussions and to use appropriate expressions.

**GRM 311 German Reading and Conversation.** 3(3-0) D.

Prerequisite: GRM 202 or permission of instructor. A structured course designed to develop and refine students reading and conversational skills. May be repeated, as content changes, to a maximum of 6 hours. Variable Content Course.

**GRM 312 German Composition.** 3(3-0) D.

Prerequisite: GRM 311 or permission of instructor. A writing intensive course designed to introduce students to a variety of text types. Emphasis is placed on recognizing the differences among the texts and student practice in preparing similar original texts.

**GRM 320 (445) German Cinema.** 3(3-0) D.

Prerequisite: GRM 202 or permission of instructor. The survey of major films produced in Germany serves as a basis for the study of German

culture, German language, and German literature. Course emphasizes the way that film content and theme development are useful in analyzing German language usage and culture in selected films. Subject will vary from semester to semester. Examples: History and Culture Through Film; From Novel to Film; East German Film; The Image of Women in Film. Repeatable up to 6 hours. Variable Content Course.

**GRM 325 Kulturkunde der deutschsprachigen Länder.** 3(3-0) D. Prerequisite: GRM 202 or permission of instructor. An introduction to major historical periods and cultural movements of the German-speaking countries. Study includes geography, history, philosophy and the arts.

**GRM 400 Praktikum.** 1-3, D.

Prerequisite: permission of instructor. A focused course that students can combine with other German classes in order to pursue a special interest within the normal course content. May be repeated with a different content to a maximum of 3 credit hours.

**GRM 415 (315) Business and Professional German.** 3(3-0) D. Prerequisite: GRM 311 or above or permission of instructor. Specialized and intensive training in German as used in business and selected professions.

**GRM 455 Masterpieces of 19<sup>th</sup> Century German Literature.** 3(3-0) D.

Prerequisite: GRM 311 or above or permission of instructor. Selected works or authors from the 19<sup>th</sup> century. May be repeated once with a different topic. Variable Content Course.

**GRM 465 Masterpieces of 20<sup>th</sup> Century German Literature.** 3(3-0) D.

Prerequisite: GRM 311 or above or permission of instructor. 300 level GRM course or permission. Selected works or authors from the 20<sup>th</sup> century. May be repeated once with a different topic. Variable Content Course.

**GRM 475 (497) Topics in German(ic) Literature & Culture.** 3(3-0) D.

Prerequisite: GRM 311 or above or permission of instructor. Selected topics in German(ic) literature and culture. May be repeated once with a different topic. Variable Content Course.

**GRM 485 Thematic Approaches to German Literature.** 3(3-0) D. Prerequisite: GRM 311 or above, or permission of instructor. A survey of German literature across multiple centuries from the perspective of a particular theme. May be repeated once as topics change. Variable Content Course.

**GRM 498 (490) Seminar Course in German.** 1-3, D.

Prerequisite: permission of instructor and department head. Supervised independent study in literature, linguistics or other restricted topics. May be repeated for no more than 6 hours.

**GRM 525 Seminar in German Literature.** 3(0-3) D.

Prerequisite: 60 hours and GRM 311 or above or permission of instructor or department head. Selected topics in German literature such as genre studies, period studies or concentration on one or more authors. May be repeated once with changed content. Variable Content Course.

**GRM 535 Advanced German Composition and Conversation.** 3(3-0) D.

Prerequisite: GRM 311 and GRM 312 or permission of instructor or department head. A study of German grammar, style and modes of expression. Designed to further develop the mastery of spoken and written German.

## Greek Courses

**GRK 101 Elementary Ancient Greek I.** 3(3-0) D.

Essentials of grammar and vocabulary building through reading and writing.

**GRK 102 Elementary Ancient Greek II.** 3(3-0) D.

Prerequisite: C or better in GRK 101 or permission of instructor. Continuation of GRK 101.

**GRK 201 Intermediate Ancient Greek III.** 3(3-0) D.

Prerequisite: C or better in GRK 102 or permission of instructor. Continuation of GRK 102 with increased emphasis on reading.

**GRK 202 Intermediate Ancient Greek IV.** 3(3-0) D.

Prerequisite: C or better in GRK 201 or permission of instructor. Introduction to Greek literature; analysis of its subjects, forms, and ideals.

**GRK 297 Special Topics in Greek.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Greek studies, including travel courses to Greek-speaking countries. The specific subject matter and/or international

component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

**GRK 301 Studies in Greek Prose.** 3(3-0) D.

Prerequisite: C or better in GRK 201 or permission of instructor. An introduction to ancient Greek prose: study of the New Testament and/or such writers as Xenophon, Herodotus, Plato, and Lysias. May be repeated once with changed content. Variable Content Course.

**GRK 302 Studies in Greek Poetry.** 3(3-0) D.

Prerequisite: C or better in GRK 201 or permission of instructor. An introduction to ancient Greek poetry: study of works by such writers as Homer, Sophocles, and Euripides. May be repeated once with changed content. Variable Content Course.

**GRK 498 (490) Seminar Course in Ancient Greek.** 1-3, D.

Prerequisite: C or better in GRK 202 and permission of instructor and department head. Supervised independent study in Greek literature and translation. May be repeated for a maximum of 6 hours.

## Hebrew Courses

**HBW 101 Elementary Biblical Hebrew I.** 3(3-0) D.

The essentials of grammar and vocabulary building of Ancient Hebrew through reading and writing.

**HBW 102 Elementary Biblical Hebrew II.** 3(3-0) D.

Prerequisite: C or better in HBW 101 or permission of instructor. Continuation of HBW 101.

**HBW 201 Intermediate Biblical Hebrew III.** 3(3-0) D.

Prerequisite: C or better in HBW 102 or permission of instructor. Continuation of HBW 102, with increased emphasis on reading.

**HBW 202 Intermediate Biblical Hebrew IV.** 3(3-0) D.

Prerequisite: C or better in HBW 201 or permission of instructor. Introduction to Ancient Hebrew Literature; analysis of its subject, forms and ideals.

**HBW 297 Special Topics in Hebrew.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Hebrew studies, including travel courses to Hebrew-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

## Italian Courses

**ITL 101 Elementary Italian I.** 3(3-0) F.

Essentials of Italian Language emphasizing the development of speaking, listening, reading, and writing within a culturally relevant context.

**ITL 102 Elementary Italian II.** 3(3-0) S.

Prerequisite: C or better in ITL 101 or permission of instructor. Continuation of ITL 101.

**ITL 297 Special Topics in Italian.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Italian studies, including travel courses to Italian-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

## Japanese Courses

*These courses can only be offered as resources permit.*

**JPN 101 Elementary Japanese I.** 3(3-0) D.

Essentials of grammar through aural-oral practice, dictation, reading and writing. Course conducted in Japanese as far as practicable.

**JPN 102 Elementary Japanese II.** 3(3-0) D.

Prerequisite: C or better in JPN 101 or permission of instructor. Continuation of JPN 101.

**JPN 201 Intermediate Japanese III.** 3(3-0) D.

Prerequisite: C or better in JPN 102 or permission of instructor. Continuation of JPN 102 with increased emphasis on reading.

**JPN 202 Intermediate Japanese IV.** 3(3-0) D.

Prerequisite: C or better in JPN 201 or permission of instructor. Introduction to Japanese literature; analysis of its subjects, forms and ideals.

**JPN 297 Special Topics in Japanese.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Japanese studies, including travel courses to Japanese-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

## Language and Literature Courses

*All LLT courses are taught in English.*

**LLT 100 Elementary Survey of Grammar for Language Students.** 1(1-0) D.

An introduction to the basic terminology and concepts of traditional grammar, including analysis of parts of speech, phrases, clauses, and verb transformation. No foreign language is required. Graded Pass/Not Pass only.

**LLT 102 Scientific and Medical Terminology.** 2(2-0) F,S.

A study of technical terminology as derived from Greek and Latin elements. Does not fulfill any language requirement.

**LLT 121 Classical Mythology.** 3(3-0) F,S.

A study of Greek and Roman myths and legends as they appear in art, music and literature, especially epic and tragedy.

**LLT 180 Hero and Quest.** 3(3-0) F,S.

This course explores the quest for self-knowledge as it is represented in the literature of non-English cultures, seeking a broader perspective on self-discovery in our own society, to understand how the protagonist, hero or anti-hero, discovers a deeper sense of nature and purpose as he or she confronts the inherited identity that culture and language have imposed.

**LLT 197 (110) Topics in Language and Literature.** 1-3, D.

Topics of general interest in foreign languages and related areas. Variable content course taught in English which may be repeated as topics change. Refer to current schedule of classes for topic and registration information.

**LLT 215 Asian Cultural Studies.** 3(3-0) D.

A survey of Asian civilization, touching on history, literature, language, art, religion, philosophy, and culture. Course may focus on either China or Japan. May be repeated once with changed content.

**LLT 225 German Cultural Studies.** 3(3-0) D.

This course presents major historical periods and cultural movements as background information necessary to the study of the literature and culture of the German speaking countries. Major movements of art, literature, music, history, and philosophy will be treated. In order to count for any German major or minor, including German BSED, course must be taken concurrently with a GRM course.

**LLT 240 Epics From Classical Antiquity.** 3(3-0) D.

A comparative study of epic poems in the ancient Mediterranean area. Epics considered will be used to present differing cultural views and how these views have affected and formed the western heroic tradition.

**LLT 271 Special Topics in German(ic) Literature in English Translation.** 3(3-0) D.

This is a variable content course. May be repeated once for credit. In order to count for any German major or minor, including German BSED, course must be taken concurrently with a GRM course.

**LLT 296 (202) Major Authors in Translation.** 3(3-0) D.

A course in comparative literature offered in English translation covering one of the following areas: (a) Germanic, (b) Latin America, (c) Latin and Greek, (d) Romance, (e) Slavic. May be taken once under each of the five titles. Variable Content Course.

**LLT 321 Comparative Mythology.** 3(3-0) D.

Comparison of the ancient myths of Greece, Rome, Northern Europe, Mesopotamia, Egypt, the Far East, and the Americas. Readings are taken from ancient sources and modern interpretation. Lectures, discussion and writing assignments will deal with major deities and heroes, the ancient mystery religions and creation epics, with emphasis on cultural background borrowings, common structures of myth, and methods of interpretation.

**LLT 325 Greek Civilization.** 3(3-0) F.

A survey of Greek civilization. Lectures will be based on art, archaeology, literature, and history of classical Greece and will include private life, personal religion, the professions, literature's reflection of culture. Slide lectures.

**LLT 326 Roman Civilization.** 3(3-0) S.

A survey of Roman civilization. Lectures will be based on the art, archaeology, literature, and history of ancient Rome and will include private life, personal religion, the professions, literature's reflection of culture. Slide lectures.

**LLT 545 Seminar in Roman Culture.** 3(0-3) D.

Prerequisite: 60 hours and permission of instructor or department head. Selected topics in Roman culture or daily life such as Roman law, rhetoric, religion, historiography, family life, politics, etc. May be repeated once with changed content. Variable Content Course.

**LLT 595 (500) Special Topics in Classics.** 1-6, D.

Prerequisite: 50 hours and permission of instructor or department head. Selected topics in Classical Studies such as topography of Rome and Athens, Advanced Mythology, genre studies. May be repeated up to 6 hours with changed content. Variable Content Course.

## Latin Courses

**LTN 101 Elementary Latin I.** 3(3-0) F.

Grammar and pronunciation; vocabulary study through reading and derivative study.

**LTN 102 Elementary Latin II.** 3(3-0) S.

Prerequisite: C or better in LTN 101 or permission of instructor. Continuation of LTN 101.

**LTN 201 Intermediate Latin III.** 3(3-0) F.

Prerequisite: C or better in LTN 102 or permission of instructor. Continuation of LTN 102, with increased emphasis on reading.

**LTN 202 Intermediate Latin IV.** 3(3-0) S.

Prerequisite: C or better in LTN 201 or permission of instructor. Introduction to Latin literature, analysis of its subjects, forms and ideals.

**LTN 312 Latin Composition.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Review of grammar with practice in writing, giving emphasis to style.

**LTN 450 Readings in Roman Public Affairs.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Readings in authors (Cicero, Seneca, Cato, *inter alios*) and genres (oratory, philosophy, letters) treating Roman civic life.

**LTN 451 Roman Elegy and Lyric.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Designed to introduce students of classics to prominent Latin lyric poets (Catullus and Horace), and to the major works of the elegiac writers (Ovid, Propertius and Tibullus, *inter alios*).

**LTN 460 Roman History.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Intensive reading in one or more major historical writers from the time of Caesar to the reign of Trajan: Livy, Nepos, Sallust, Suetonius, or Tacitus.

**LTN 461 Roman Epic.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Designed primarily to provide students of the Classics with a sense of appreciation for Rome's masterpiece, Vergil's *Aeneid*, as well as some of the writing of other epic authors, e.g. Lucan, Statius, Valerius Flaccus, *et al.*

**LTN 470 Roman Letters and Personal Life.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. A study of works reflecting the Roman way of life outside the political arena, including personal letters of Pliny, the Roman novel (Petronius and Apuleius), and the philosopher's meditations on friendship, old age, and other aspects of the human condition (Cicero, Seneca).

**LTN 471 Roman Satire.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Works of Roman satire by such authors as Horace, Petronius, Persius, Martial, and Juvenal.

**LTN 480 Research in Latin Literature.** 1(1-0) D.

Prerequisite: LTN 202 or permission of instructor. A writing project designed to develop skills necessary for research in original texts of ancient authors. Must be taken in conjunction with LTN 450, 451, 460, 461, 470, 471 or 485. May be repeated once for a maximum of 2 hours. Does not count toward the 12-hour B.A. language requirement nor meet any humanities requirement.

**LTN 485 Patristics and Late Latin Writers.** 4(4-0) D.

Prerequisite: LTN 202 or permission of instructor. Introduction to post-Roman Latin used from Christian period through the Renaissance. Readings from sources such as St. Augustine, Jerome, Carmina Burana, Medieval fables, Erasmus, and Sir Thomas More.

**LTN 499 (490) Independent Studies in Latin.** 1-3, D.  
Prerequisite: permission of instructor and department head. Supervised independent study in literature, linguistics or other restricted topics. May be repeated for maximum of 6 hours.

**LTN 525 Seminar in Latin Literature.** 3(3-0) D.  
Prerequisite: 60 hours and permission of instructor or department head. Selected topics in Latin literature such as genre studies, period studies, or concentration on one or more authors. May be repeated once with changed content. Variable Content Course.

## Modern and Classical Languages Courses

**MCL 303 (103) Coping with Culture.** 3(3-0) S.  
This course is designed to introduce students to a discipline-specific (e.g., Hotel and Restaurant Management; Agri-Business; International Finance, Business and Banking; Languages for Vocalists, Scientists, et al.; Travel Industry; Medical Professions, etc.) understanding of cultural differences and to provide them with a limited vocabulary specific to their discipline. It gives students a rudimentary idea of how languages (e.g., French, German, Spanish) work, and helps them achieve a basic level of expression in these languages in situations relative to their profession. In this semester-long course, students rotate every five weeks from one language instructor to another.

**MCL 413 (SEC) Teaching of Foreign Languages.** 3(3-1) F.  
Prerequisite: equivalent of 12 hours in foreign language, EDC 350, and admitted to teacher education program. Teaching of foreign languages in secondary schools; practical application of techniques and methods. Credited only on B.S. in Education (Secondary). A grade of C or better is required in this course in order to take MCL 493 or MCL 496. May not be taken Pass/Not Pass.

**MCL 491 Clinical Experiences in Teaching II.** 4 F,S.  
Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**MCL 493 Supervised Teaching (Foreign Language-Secondary Education).** 5-6, F,S.  
Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both SEC 493 and MCL 493.

**MCL 496 Supervised Teaching (Foreign Language-Elementary Education).** 5-6, F,S.  
Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; and approved for student teaching. Student observes, then teaches under the direction of the cooperating teacher and college supervisor. Student participates in school-related activities and attends both individual and group conferences. Credited only on B.S. in Education. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both ELE 496 and MCL 496.

**MCL 499 Program Assessment.** 0(0-0) D.  
Prerequisite: permission of department head. Required assessment of programs for all foreign language majors or any student completing teacher certification in a foreign language. Assessment procedures and activities are scheduled during the last semester of residence or of graduation. Process may include oral and written examinations, a paper or project, and departmental interviews, summaries and questionnaires. The focus is on foreign language program development, rather than on individual student evaluation. Graded Pass/Not Pass only.

**MCL 500 Advanced Research in the Discipline.** 3(3-0) D.  
Prerequisite: 60 hours and permission of instructor or department head. This course will focus on research sources and methods such as the use of bibliographical materials and literary investigation and interpretation in non-English languages. Emphasis will be on resources for teachers in developing individualized professional interests.

**MCL 550 Advanced Study Abroad.** 3-6, D.  
Prerequisite: FRN 311 or GRM 311 or SPN 205 and permission of instructor and language advisor. Study in an area of the world where the target language is spoken. This may be taken through the Department's existing program or at any accredited institution.

**MCL 597 Topics for Teachers of Foreign Languages.** 1, D.  
Prerequisite: 60 hours or permission of instructor or department head. Variable content course covering topics of discipline-specific interest to foreign language teachers, e.g., specialized technological resources or contemporary cultural materials. Sections may be specific to a particular language or concern general pedagogical issues. May be repeated with changed content. No more than 2 hours may be counted toward M.S.Ed. degree. Variable Content Course.

*The following courses are open only to graduate students.*

**MCL 600 Advanced Language Teaching Methods and Technology.** 3(3-0) D.  
Prerequisite: 60 hours and permission of instructor or department head. This course will acquaint language teachers with current second language research and teaching practice, with emphasis on the uses of technology.

**MCL 699 Thesis.** 1-6, D.  
Prerequisite: 60 hours and permission of instructor or department head. In consultation with MCL and Education advisors, a student may elect to write a thesis on a topic within the discipline. May be repeated up to 6 hours.

## Portuguese Courses

**PTG 101 Elementary Portuguese I.** 3(3-0) F,S.  
The primary goal of PTG 101 is to help students develop proficiency in the four communication skills: listening, reading, speaking, and writing. These skills are essential to effective communication in the target language.

**PTG 102 Elementary Portuguese II.** 3(3-0) F,S.  
Prerequisite: C or better in PTG 101 or permission of instructor. The primary goal of PTG 102 is to help students develop additional proficiency in the four communication skills: listening, reading, speaking, and writing. These skills are essential to effective communication in the target language.

**PTG 297 Special Topics in Portuguese.** 1-6, D.  
Prerequisite: permission of instructor and department head. Topics of selected interest in Portuguese studies, including travel courses to Portuguese-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

## Russian Courses

*These courses can only be offered as resources permit.*

**RUS 101 Elementary Russian I.** 3(3-0) D.  
Essentials of grammar through aural-oral practice, dictation, reading, and writing. Course conducted in Russian as far as practicable.

**RUS 102 Elementary Russian II.** 3(3-0) D.  
Prerequisite: C or better in RUS 101 or permission of instructor. Continuation of RUS 101.

**RUS 201 Intermediate Russian III.** 3(3-0) D.

Prerequisite: C or better in RUS 102 or permission of instructor. Continuation of RUS 102 with emphasis on reading, conversation, and an introduction to Russian History and culture.

**RUS 202 Intermediate Russian IV.** 3(3-0) D.

Prerequisite: C or better in RUS 201 or permission of instructor. Continuation of RUS 201 with emphasis on reading, conversation, history, and culture.

**RUS 297 (205) Special Topics in Russian.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Russian studies, including travel-courses to Russian-speaking parts of the Soviet Union. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 hours. Variable Content Course.

**RUS 498 (490) Seminar Course in Russian.** 1-3, D.

Prerequisite: permission of instructor and department head. Supervised independent study in literature, linguistics or other restricted topics. May be repeated for a maximum of 6 hours.

## Spanish Courses

**SPN 101 Elementary Spanish I.** 3(3-0) F,S.

The primary goal of SPN 101 is to help students develop proficiency in the four communication skills: listening, reading, speaking and writing. These skills are essential to effective communication in the target language. Credit-by-exam is available.

**SPN 102 Elementary Spanish II.** 3(3-0) F,S.

Prerequisite: C or better in SPN 101 or permission of instructor. The primary goal of SPN 102 is to help students develop additional proficiency in the four communication skills: listening, reading, speaking and writing. These skills are essential to effective communication in the target language. Credit-by-exam is available.

**SPN 201 Intermediate Spanish I.** 3(3-0) F,S.

Prerequisite: C or better in SPN 102 or permission of instructor. The primary goal of SPN 201 is the systematic review, expansion, and synthesis of the four skill areas. Communicative skills will be enhanced by providing a thorough review of fundamentals of grammar through real-life language use, reading and composition. Credit-by-exam is available.

**SPN 202 Intermediate Spanish II.** 3(3-0) F,S.

Prerequisite: C or better in SPN 201 or permission of instructor. Continuation of the development of the four skills through conversation, composition and reading as a means to access culture.

**SPN 205 Spanish Proficiency Skills.** 3(3-1) F,S.

Prerequisite: C or better in SPN 201 or permission of instructor. Systematic presentation, review, and intensive practice of selected grammatical, verbal and idiomatic components of Spanish. Focus on acquisition and development of skills necessary for effective oral and written communication in Spanish.

**SPN 210 Spanish Reading and Composition for Fluent Speakers.** 3(3-0) D.

Prerequisite: permission of instructor. This course is intended for students with fluent Spanish-speaking ability who need to improve reading and writing skills.

**SPN 297 Special Topics in Spanish.** 1-6, D.

Prerequisite: permission of instructor and department head. Topics of selected interest in Spanish studies, including travel-courses to Spanish-speaking countries. The specific subject matter and/or international component may change from semester to semester according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

**SPN 300 Service Learning in Spanish.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a Spanish course at the 202 level or above. This service component for the existing Spanish curriculum incorporates community service with classroom instruction to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service providing instruction or other community service in the Springfield-area schools and other community groups. May be repeated but no more than 2 hours of service learning may count toward graduation.

**SPN 301 Intensive Grammar Review.** 1-3, D.

Prerequisite: permission of instructor. Intensive grammar review of selected topics. May be repeated with different topics to a maximum of 3 credit hours. Variable Content Course.

**SPN 302 Topics in Hispanic Culture.** 1-3, D.

Prerequisite: permission of instructor. Selected topics in culture and travel. May be repeated with different topics to a maximum of 3 credit hours. Variable Content Course.

**SPN 303 Languages and Technology.** 1-3, D.

Prerequisite: permission of instructor. Issues concerning Spanish and technology. May be repeated with different topics to a maximum of 3 credit hours. Variable Content Course.

**SPN 312 Spanish Composition.** 3(3-0) D.

Prerequisite: SPN 202 or SPN 205 or permission of instructor. Review of grammar with writing practice; emphasis on idioms.

**SPN 320 Hispanic Cinema.** 3(3-1) D. Taught in Spanish.

Prerequisite: SPN 202 or SPN 205 or permission of instructor. A survey of major, twentieth-century films produced in Spanish throughout the Spanish-speaking world. Course features a study of directors and works, technique of cinematography, film content and theme development, and analysis of Spanish-language usage and culture in selected films. The relationship between film and Spanish literature and art is also studied. Selected films are also viewed and studied over the course of the semester.

**SPN 325 (253) Civilization of Spain.** 3(3-0) D.

Prerequisite: SPN 202 or SPN 205 or permission of instructor. Origin and development of Iberian culture; includes geography, history, philosophy and arts.

**SPN 326 (255) Civilization of Spanish America.** 3(3-0) D.

Prerequisite: SPN 202 or SPN 205 or permission of instructor. Origin and development of Spanish American culture; includes geography, history, philosophy, and arts.

**SPN 340 Introduction to Reading and Writing in Spanish.** 3(3-0) S.

This course will acquaint the Spanish student with the vocabulary necessary for reading and writing about various technical and literary genres in the Spanish language. It provides a basis for further study of Spanish language literature and other modes of writing such as journalism and commercial correspondence.

**SPN 410 Translation.** 3(3-0) D.

Prerequisite: SPN 312 or permission of instructor. Activities and exercises in oral and written translation focusing on career fields.

**SPN 415 (315) Business and Professional Spanish.** 3(3-0) D.

Prerequisite: SPN 312 or higher, or permission of instructor. Specialized and intensive training in Spanish as used in business and selected professions.

**SPN 430 Early Hispanic Literature.** 3(3-0) D.

Prerequisite: SPN 312 or permission of instructor. Selected works or authors from early Hispanic literature. Variable Content Course.

**SPN 450 Modern Peninsular Literature.** 3(3-0) D.

Prerequisite: SPN 312 or permission of instructor. Selected works or authors from Modern Peninsular literature. May be repeated once with a different topic. Variable Content Course.

**SPN 460 Spanish American Literature.** 3(3-0) D.

Prerequisite: SPN 312 or permission of instructor. Selected works or authors from Spanish American Literature. May be repeated once with a different topic. Variable Content Course.

**SPN 480 Directed Readings.** 1(1-0) D.

Prerequisite: permission of instructor and department head.

**SPN 525 Seminar in Spanish Literature.** 3(0-3) D.

Prerequisite: 60 hours and permission of instructor or department head. Selected topic in Spanish literature such as genre studies, period studies or concentration on one or more authors. May be repeated once with changed content. Variable Content Course.

**SPN 535 Advanced Spanish Composition and Conversation.** 3(3-0) D.

Prerequisite: SPN 312 and permission of instructor or department head. A study of Spanish grammar, style and modes of expression. Designed to further develop the mastery of written and spoken Spanish.

## Department of Music

206 Ellis Hall, Phone: 836-5648, FAX: 836-7665  
Email: Music@missouristate.edu

**Department Head:** Professor Roger Stoner, D.M.A.

**Professors:** Peter Collins, D.M.A.; Jerry Hoover, M.M.; Cynthia Green Libby, D.M.A.; Norma McClellan, Ph.D.; Amy Muchnick, D.M.A.; Michael A. Murray, D.M.A.; Rose Mary Owens, Ph.D.; James Parsons, Ph.D.; Belva Prather, Ed.D.; John S. Prescott, D.M.A.; Robert Quebbeman, D.M.A.; Guy Webb, D.M.A.; Pearl Yeadon, D.M.A.

**Associate Professors:** Scott Cameron, D.M.A.; Lisa R. Casey, D.M.A.; Michael R. Casey, M.M.E.; Randall Hamm, M.M.; William Hartman, M.A.; Jill Heyboer, D.M.A.; David Hays, D.M.A.; Michael F. Murray, D.M.A.; Grant Peters, D.M.A.

**Assistant Professors:** Jeremy Chesman, M.M.; Andrew Childs, B.M.; Richard Todd Payne, D.M.A.; Allison Storochuk, D.M.A.; Wei-Han Su, D.M.A.

**Emeritus Professors:** Lloyd G. Blakely, D.M.A.; Alan L. Bradley, Mus.D., Elton Burgstahler, Ph.D.; Kenneth Dustman, Ed.D.; Wynne Harrell, D.M.A.; Johnnie W. Johnson, M.M.; Mollie Autry Molnar, D.M.A.; Patricia Pierce, M.M.; Robert M. Scott, M.S.

**Member:** National Association of Schools of Music

**Accreditations and Approvals:** National Association of Schools of Music (NASM) – Music, B.A., M.M., Music/Performance, B.M., Music/Composition, B.M., Music Education, B.M.E., Musical Theatre, B.F.A.; Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Music Education, B.M.E., Secondary Education/Music, M.S.Ed.

### Credit By Examination

Credit for MUS 111 and 112 is available for the Advanced Placement (AP) Examination and the College Level Examination Program (CLEP) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### Stipulations

**Auditions:** Students desiring to pursue a major or minor offered by the Department of Music must first audition for a committee of applied faculty in that student’s desired performance area. This audition should take place during the semester prior to or during the first week of enrollment in applied lessons. The dates for auditions will be arranged by the individual area. All students will be required to demonstrate a rudimentary ability to relate musical sound to notation and terminology before beginning the theory and ear-training sequence.

**Performance Concentration:** All Bachelor of Music Education majors must concentrate in at least one major field of performance and perform a senior recital (MUS 498).

**Piano Proficiency Examination:** All Bachelor of Arts, Bachelor of Music, and Bachelor of Music Education majors will be required to pass a piano proficiency examination prior to the conclusion of the sophomore year. These students will not be permitted to enroll in recital attendance courses at the 300 level or above until all sections of the examination are passed.

**Assessment:** All undergraduate majors in all degrees will be required to take an assessment test in music prior to graduation. This test will be administered at no cost to the student and will not be used for any purpose other than that of assessing departmental programs and courses.

**Applied Fee Waivers:** All music students may apply for a waiver of the additional applied music fee.

### General Education Courses

MUS 239 may be used toward the Humanities Perspective of the Self-Understanding Area of Inquiry. MUS 241 may be used toward the Creativity and Vision Perspective of the Self-Understanding Area of Inquiry. MUS 345 or 346 may be used toward the Humanities Perspective of the Culture and Society Area of Inquiry. At most, two of these courses may count toward general education.

### Fine Arts Courses—Bachelor of Arts Degree

These courses may be used to meet the fine arts requirement of the Bachelor of Arts degree for all students: MUS 239, 241, 345, 346. Courses used to meet this fine arts requirement on the Bachelor of Arts degree may *not* also be used to meet general education requirements.

### Diploma in Applied Music

A diploma recital may be given by Bachelor of Arts and Bachelor of Music Education majors. Based on excellence in performance, this departmental diploma is granted upon recommendation of the Department of Music. It is not granted to those receiving the Bachelor of Music degree since excellence in performance is evident in the awarding of this degree.

## Majors

### Music (Comprehensive) Bachelor of Music

#### Admission Requirements

To be admitted to the degree program, students must audition for a committee of applied faculty in that student’s major performance area. See stipulations section for more information.

The degree is designed to develop the student’s ability for either performance and private teaching or composition. It is also designed to prepare students for graduate study in the specialized area. All students (including transfer students) who wish to pursue the Bachelor of Music in Performance Degree must pass a performance hearing in order to be accepted into the program. This hearing should take place either prior to or at the end of the first semester of study. The candidate for this degree must meet the following requirements:

**Program Requirements**

A. General Education Requirements - see "Academic Programs and Requirements" section of catalog

B. Major Requirements (82-91 hours)

1. Music Core Requirements (35 hours)

- a. Foreign Language (6 hours) select from: French, German, or Italian
- b. Basic Theory (14 hours): MUS 111(2), 112(1), 113(2), 114(1), 211(2), 212(1), 213(2), 214(1)
- c. Music History/Literature (9 hours): MUS 239(3), 345(3), 346(3)
- d. Piano (6 hours-may be waived by examination): MUS 137(1), 138(1), 237(1), 238(1), 337(1), 338(1)
- e. Conducting (2 hours): MUS 321(2)
- f. Recital Attendance: MUS 107(0), 108(0), 207(0), 208(0), 307(0), 308(0), 407(0)
- g. Senior Recital: MUS 498(0)

*NOTE: A half Junior Recital is required of all Bachelor of Music in Performance students.*

2. Choose one of the following options:

a. **Composition** (56 hours)

1. Composition (15 hours) select from: MUS 327(2), 516(2-4), 517(2-4), 520(2-4), 521(2-4)
2. Advanced Music History/Literature (6 hours) select from: MUS 523(2), 524(2), 543(3), 544(3), 545(3), 546(3), 547(3), 548(2)
3. Advanced Music Theory (11 hours): MUS 313(2), 314(2), 315(2), 328(2), 512(3)
4. Large Ensembles (8 hours) as determined by audition; full-time students shall be in an instrumental ensemble each semester until graduation. Select from: MUS 162(1), 262(1), 362(1), 462(1); MUS 165(1), 265(1), 365(1), 465(1); MUS 168(1), 268(1), 368(1), 468(1); MUS 175(1), 275(1), 375(1), 475(1); MUS 176(1), 276(1), 376(1), 476(1); MUS 192(1), 292(1), 392(1), 492(1)
5. Small Ensembles (4 hours) select from: MUS 172(1), 272(1), 372(1), 472(1); MUS 173(1), 273(1), 373(1), 473(1); MUS 174(1), 274(1), 374(1), 474(1)
6. Applied Music (12 hours): All students must reach applied level six
  - a. Keyboard (4 hours) select from: MUS 151(1), 251(1), 351(1), 451(1)
  - b. Remaining hours in a single applied area (8 hours)

b. **Instrumental Performance** (47 hours)

1. Advanced Music History/Literature (6 hours) select from: MUS 523(2), 524(2), 543(3), 544(3), 545(3), 546(3), 547(3), 548(2)
2. Advanced Music Theory (6 hours) select from: MUS 313(2), 314(2), 315(2), 327(2), 328(2)
3. Large Ensembles (8 hours) as determined by audition; full-time students shall be in an instrumental ensemble each semester until graduation. Select from: MUS 175(1), 275(1), 375(1), 475(1); MUS 176(1), 276(1), 376(1), 476(1)
4. Small Ensembles (4 hours) select from: MUS 172(1), 272(1), 372(1), 472(1); MUS 173(1), 273(1), 373(1), 473(1); MUS 174(1), 274(1), 374(1), 474(1)
5. Pedagogy (2 hours): MUS 538(2)
6. Applied Music (21 hours): All students must reach applied level eight

c. **Keyboard Performance** (47 hours)

1. Advanced Music History/Literature (6 hours) select from: MUS 523(2), 524(2), 543(3), 544(3), 545(3), 546(3), 547(3), 548(2)
2. Advanced Music Theory (6 hours) select from: MUS 313(2), 314(2), 315(2), 327(2), 328(2)

3. Large Ensembles (8 hours) as determined by audition; full-time students shall be in an instrumental ensemble each semester until graduation. Select from: MUS 162(1), 262(1), 362(1), 462(1); MUS 165(1), 265(1), 365(1), 465(1); MUS 168(1), 268(1), 368(1), 468(1); MUS 175(1), 275(1), 375(1), 475(1); MUS 176(1), 276(1), 376(1), 476(1); MUS 192(1), 292(1), 392(1), 492(1)
4. Small Ensembles (4 hours) select from: MUS 172(1), 272(1), 372(1), 472(1); MUS 173(1), 273(1), 373(1), 473(1); MUS 174(1), 274(1), 374(1), 474(1). Keyboard majors may substitute up to three hours of Accompanying.
5. Pedagogy (2 hours): MUS 538(2)
6. Applied Music (21 hours): All students must reach applied level eight

d. **Vocal Performance** (50 hours)

1. Advanced Music History/Literature (6 hours) select from: MUS 523(2), 524(2), 543(3), 544(3), 545(3), 546(3), 547(3), 548(2)
2. Advanced Music Theory (6 hours) select from: MUS 313(2), 314(2), 315(2), 327(2), 328(2)
3. Large Ensembles (8 hours) as determined by audition, full-time students shall be in one of the following choral ensembles each semester until graduation. Select from: MUS 162(1), 262(1), 362(1), 462(1); MUS 165(1), 265(1), 365(1), 465(1); MUS 168(1), 268(1), 368(1), 468(1)
4. Small Ensembles (1 hour): MUS 193(1)
5. Pedagogy (2 hours): MUS 530(2)
6. Applied Music (21 hours): All students must reach applied level eight
7. Foreign Language (6 additional hours in a language other than that used in the Music Core) select from: French, German, Italian

C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Music (Non-Comprehensive) Bachelor of Arts

### Admission Requirements

To be admitted to the degree program, students must audition for a committee of applied faculty in that student's major performance area. See stipulations section for more information.

### Program Requirements

A. General Education Requirements - see "Academic Programs and Requirements" section of catalog

B. Major Requirements (38 hours)

1. Basic Theory (9 hours): MUS 111(2), 112(1), 113(2), 114(1), 211(2), 212(1)
2. Music History/Literature (9 hours): MUS 239(3), 345(3), 346(3)
3. Applied Music (6 hours) to be selected from class and/or private instruction. At least four hours must be in private instruction in the major performance area. All students must reach applied level six
4. Performing Ensemble electives (4 hours)
5. Additional electives (10 hours) select from: MUS 213(2), 214(1), 313(2), 314(2), 315(2), 327(2), 512(3), 523(2), 524(2), 529(3), 543(3), 544(3), 545(3), 546(3), 547(3), 548(2)
6. Recital Attendance: MUS 107(0), 108(0), 207(0), 208(0), 307(0), 308(0), and 407(0)

C. Minor Required

D. Specific Requirements for Bachelor of Arts Degree - see "Academic Programs and Requirements" section of catalog

E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog



## Music-Instrumental (Comprehensive) Bachelor of Music Education (Certifiable grades K-12)

### Admission Requirements

To be admitted to the degree program, students must audition for a committee of applied faculty in that student's major performance area. See stipulations section for more information.

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. The curriculum for music education leads to the degree of Bachelor of Music Education and carries with it an initial professional certificate (PCI) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education.

### Program Requirements

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (88 hours)
  1. Music Theory (14 hours): MUS 111(2), 112(1), 113(2), 114(1), 211(2), 212(1), 213(2), 214(1), 315(2)
  2. Music History/Literature (9 hours): MUS 239(3), 345(3), 346(3)
  3. Music Education courses (43 hours): The program outlined below has been designed to provide the preparation of Bachelor of Music Education students and meet the requirements for certification in the secondary schools in Missouri. *NOTE: A grade of "C" or better in each course is required for state certification.*
    - a. Introduction to a Career in Music Education (1 hour): MUS 148(1)
    - b. Clinical and Field Experiences in Elementary and Secondary Music Education (3 hours): MUS 200(3)
    - c. Conducting (4 hours): MUS 321(2), 323(2)
    - d. Techniques (6 hours may be waived by examination) select from: MUS 131(1), 132(1), 133(1), 134(1), 141(1), 142(1), 143(1), 144(1), 145(1), 146(1), 147(1)
    - e. Adaptive Music for Special Learners (2 hours): MUS 340(2)
    - f. Band (String) Administration and Materials (3 hours): MUS 506(3) or 539(3)
    - g. Foundations of American Education (3 hours): EDC 350(3)
    - h. Educational Psychology (3 hours): PSY 360(3)
    - i. Reading and Writing in the Content Fields (2 hours): RDG 474(2)
    - j. Secondary Instrumental Methods and Materials (3 hours): MUS 411(3)
    - k. Teaching of Music in the Grades (Elementary Methods) - (3 hours): MUS 430(3)
    - l. Student Teaching Seminar (2 hours): MUS 488(2)
    - m. Supervised Teaching (8 hours): MUS 494(4), 496(4). Subject to the standard guidelines for Field Service Experience in the College of Education
  4. Piano (6 hours – may be waived by examination): MUS 137(1), 138(1), 237(1), 238(1), 337(1), 338(1)
  5. Instrumentation (2 hours): MUS 328(2)
  6. Applied Music-Major Instrument (7 hours)
  7. Recital Attendance: MUS 107(0), 108(0), 207(0), 208(0), 307(0), 308(0), 407(0)
  8. Senior Recital: MUS 498 (0)
  9. Large Ensemble (7 hours) As determined by audition, Full-time students shall be in one of the following instrumental ensembles, in their certification emphasis, each semester, except the supervised teaching semester, until graduation (a minimum of seven hours must show on the completed transcript): MUS 175(1),

275(1), 375(1), 475(1); MUS 176(1), 276(1), 376(1), 476(1). Refer to the Music Major Handbook for a list of large ensembles. *NOTE: Applied keyboard majors may substitute up to three hours of Accompanying: MUS 192(1), 292(1), 392(1), 492(1). Wind, Brass and Percussion majors must be in a band (except the Community Band, which cannot fulfill the large ensemble requirement) each semester except for the supervised teaching semester. At least two of these semesters must be spent in marching band.*

- C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- D. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Music Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (Music), which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the music education courses; and no grade lower than a "C" in all music education courses. All GPA requirements include both Missouri State and transfer grades. Additional State Board of Education certification rules require passing scores on all portions of the College Basic Academic Subject Examination (C-BASE) and successful completion of the appropriate Praxis II Examination with a score equal to Missouri's qualifying score.

## Music-Vocal/Choral (Comprehensive) Bachelor of Music Education (Certifiable grades K-12)

### Admission Requirements

To be admitted to the degree program, students must audition for a committee of applied faculty in that student's major performance area. See stipulations section for more information.

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. The curriculum for music education leads to the degree of Bachelor of Music Education and carries with it an initial professional certificate (PCI) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education.

### Program Requirements

- A. General Education - see "Academic Programs and Requirements" section of catalog
- B. Major Requirements (88 hours)
  1. Music Theory (14 hours): MUS 111(2), 112(1), 113(2), 114(1), 211(2), 212(1), 213(2), 214(1), 315(2)
  2. Music History/Literature (9 hours): MUS 239(3), 345(3), 346(3)
  3. Music Education courses (43 hours): The program outlined below has been designed to provide the preparation of Bachelor of Music Education students and meet the requirements for certification in the secondary schools in Missouri. *NOTE: A grade of "C" or better in each course is required for state certification.*
    - a. Introduction to a Career in Music Education (1 hour): MUS 148(1)
    - b. Clinical and Field Experiences in Elementary and Secondary Music Education (3 hours): MUS 200(3)
    - c. Conducting (4 hours): MUS 321(2), 322(2)
    - d. Techniques (6 hours): MUS 146(1), 193(1), 294(2) or 295(2), 305(2)
    - e. Adaptive Music for Special Learners (2 hours): MUS 340(2)
    - f. Vocal Pedagogy and Materials (3 hours): MUS 530(3)



- g. Foundations of American Education (3 hours): EDC 350(3)
  - h. Educational Psychology (3 hours): PSY 360(3)
  - i. Reading and Writing in the Content Fields (2 hours): RDG 474(2)
  - j. Secondary Choral Methods (3 hours): MUS 410(3)
  - k. Teaching of Music in the Grades (Elementary Methods) - (3 hours): MUS 430(3)
  - l. Student Teaching Seminar (2 hours): MUS 488(2)
  - m. Supervised Teaching (8 hours): MUS 494(4), MUS 496(4). Subject to the standard guidelines for Field Service Experience in the College of Education
- 4. Piano (6 hours – may be waived by examination): MUS 137(1), 138(1), 237(1), 238(1), 337(1), 338(1)
  - 5. Choral Arranging (2 hours): MUS 518(2)
  - 6. Applied Music (7 hours): MUS 153(3), 253(1), 353(1), 453(1); MUS 193(1), 293(1), 393(1), 493(1)
  - 7. Recital Attendance: MUS 107(0), 108(0), 207(0), 208(0), 307(0), 308(0), 407(0)
  - 8. Senior Recital: MUS 498(0)
  - 9. Large Ensemble (7 hours): As determined by audition. Full-time students shall be in one of the following vocal ensembles, in their certification emphasis, each semester, except the supervised teaching semester, until graduation (a minimum of seven hours must show on the completed transcript): MUS 162(1), 262(1), 362(1), 462(1); MUS 168(1), 268(1), 368(1), 468(1); MUS 165(1), 265(1), 365(1), 465(1). Refer to the Music Major Handbook for a list of large ensembles.
- C. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog
  - D. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Music Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (Music) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the music education courses; and no grade lower than a “C” in all music education courses. All GPA requirements include both Missouri State and transfer grades. Additional State Board of Education certification rules require passing scores on all portions of the College Basic Academic Subject Examination (C-BASE) and successful completion of the appropriate Praxis II Examination (or National Teachers Examination (NTE) Examination, if applicable) Specialty Area Test with a score equal to Missouri’s qualifying score.

### Optional Endorsements Vocal/Choral or Instrumental Bachelor of Music Education (Certifiable grades K-12)

- A. Vocal/Choral Endorsement for Instrumental Music Major (14 hours)
  - 1. Applied Voice (4 hours) select from: MUS 153(1), 253(1), 353(1), 453(1) and/or Voice Class (4 hours) select from: MUS 135(1), 136(1), 235(1), 236(1). All students must reach applied level six.
  - 2. Singing Diction (2 hours): MUS 294(2)
  - 3. Choral Conducting (2 hours): MUS 322(2)
  - 4. Choral Literature (2 hours): MUS 510(2)
  - 5. Choral Arranging (2 hours): MUS 518(2)
  - 6. Large Choral Ensemble (2 hours) select from: MUS 162(1), 262(1), 362(1), 462(1); MUS 165(1), 265(1), 365(1), 465(1); MUS 168(1), 268(1), 368(1), 468(1)
- B. Instrumental Endorsement for Vocal Music Major (14 hours)
  - 1. Applied Music-Instrumental (2 hours). All students must reach applied level six.

- 2. Techniques (6 hours - may be waived by examination) select from: MUS 131(1), 132(1), 133(1), 134(1), 139(1), 141(1), 142(1), 143(1), 144(1), 145(1), 146(1), 147(1)
- 3. Instrumental Conducting (2 hours): MUS 323(2)
- 4. Instrumentation (2 hours): MUS 328(2)
- 5. Large Instrumental Ensemble (2 hours) select from: MUS 175(1), 275(1), 375(1), 475(1); MUS 176(1), 276(1), 376(1), 476(1)

### Musical Theatre Bachelor of Fine Arts

#### Admission Requirements

In addition to the University’s admission requirements, students are required to audition for acceptance to the BFA in Musical Theatre program prior to the first semester of course work in the major. Auditions and interviews for a place in the program are held on campus in February of each year. Specific information as to the date and the process is available through the Department of Theatre and Dance.

#### Performance Reviews

In addition to the curricular requirements for the degree, students must successfully complete two performance reviews prior to graduation. These include a mid-program review after specified upper-level courses have been completed and an exit review given in one of the two semesters of the senior year.

#### Program Requirements

- A. General Education Requirements - see “Academic Programs and Requirements” section of catalog
- B. Major Requirements (84-85 hours)
  - 1. Acting (12 hours): THE 121(2), 221(2), 321(2), 421(2), 451(2), 452(2)
  - 2. Voice (17 hours): MUS 153(1), 253(1), 353(1), 453(1) for 8 semesters/11 hours; MUS 498(0); THE 126(2), 226(2), 424(2). All students must reach applied level eight
  - 3. History/Analysis (9 hours): THE 130(3), 581(3), 582(3)
  - 4. Technology (10 hours): THE 150(2), 151(1), 224(1), and select 6 hours from: THE 250(2) and 251(1), 255(2) and 256(1), 260(2) and 261(1)
  - 5. Musicianship (8 hours): MUS 100(2), 111(2), 112(1), 114(1), 137(1), 138(1)
  - 6. Dance/Movement (13-14 hours): THE 328(2); DAN 125(1), 348(2);  
Dance Technique classes (by placement):  
select 4 hours from: DAN 245(2), 345(2), 445(2)  
select 2-3 hours from: DAN 130(1) and 131(2), or DAN 230(2), 330(2), 430(2)  
select 2 hours from: DAN 216(2), 316(2), 416(2)
  - 7. Musical Theatre Workshop (5 semesters/10 hours) select from: MUS 280(2), 380(2), 480(2)
  - 8. Electives (5 hours): choose from Theatre, Music, or Dance courses with approval of advisor
- C. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

### Minors

#### Music Bachelor of Arts Bachelor of Science

- A. Basic Theory (6 hours): MUS 111(2), 112(1), 113(2), 114(1)
- B. Music History/Literature (6 hours): MUS 239(3), 346(3)
- C. Applied Music (4 hours)
- D. Elective Music Courses (2 hours) to bring total hours in Music to 18.

## Music

### Bachelor of Science in Education (Certifiable grades K-12)

This minor is intended for Elementary Education majors who wish to be certified to teach music at that level. Despite the K-12 certification, it is not designed for those who intend to teach at the secondary level. Students who wish to pursue this minor must be approved by the Music Education Faculty and the Music Department Head. In addition to the courses indicated below, students must take the appropriate professional education courses to meet certification requirements.

#### Option A. Instrumental (38 hours)

1. Basic Theory (6 hours): MUS 111(2), 112(1), 113(2), 114(1)
2. Conducting (4 hours): MUS 321(2), 323(2)
3. Music History/Literature (6 hours): MUS 239(3), 346(3)
4. Piano (2 hours – may be waived by examination) select from: MUS 137(1), 138(1), or 151(1), 251(1), 351(1), 451(1)
5. Instrumental Techniques (6 hours) select from: MUS 131(1), 132(1), 133(1), 134(1), 141(1), 142(1), 143(1), 144(1), 145(1), 146(1), 147(1)
6. Applied music on a single instrument (4 hours): All students must reach applied level three
7. Instrumental Ensemble (2 hours) select from: MUS 175(1), 275(1), 375(1), 475(1) or MUS 176(1), 276(1), 376(1), 476(1)
8. Instrumentation (2 hours): MUS 328(2)
9. Music Education Teaching Methods (6 hours): MUS 411(3), 430(3)

#### Option B. Vocal (37 hours)

1. Basic Theory (6 hours): MUS 111(2), 112(1), 113(2), 114(1)
2. Conducting (4 hours): MUS 321(2), 322(2)
3. Music History/Literature (6 hours): MUS 239(3), 346(3)
4. Piano (2 hours – may be waived by examination) select from: MUS 137(1), 138(1), or 151(1), 251(1), 351(1), 451(1)
5. Choral Arranging (2 hours): MUS 518(2)
6. Applied voice (6 hours) select from: MUS 135(1), 136(1), or 153(1), 253(1), 353(1), 453(1). All students must reach applied level three.
7. Vocal Pedagogy (3 hours): MUS 530(3)
8. Choral Ensemble (2 hours) select from: MUS 162(1), 262(1), 362(1), 462(1); MUS 165(1), 265(1), 365(1), 465(1); or MUS 168(1), 268(1), 368(1), 468(1)
9. Music Education Teaching Methods (6 hours): MUS 410(3), 430(3)

C. In order to meet Missouri state teacher certification requirements, all candidates for the Bachelor of Music Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area, which includes all courses required for the minor.

## Graduate Programs

A Master of Music degree is offered. The Master of Science in Education degree (secondary education major) offers an area of emphasis in Music. See the Graduate Catalog for details.

## Applied Music Courses

*Variable credit courses. Amount of credit for each course is determined by the Music Department at registration. All applied music courses may be repeated for credit. Special fees will be assessed for all students except undergraduate music majors. (See "Costs".)*

**MUS 149, 249, 349, 449 String (Instrument).** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, bass viol.

**MUS 150, 250, 350, 450 Harpsichord.** 1-4, F, S.

Prerequisite: permission of instructor. Applied instruction in harpsichord.

**MUS 151, 251, 351, 451 Piano.** 1-4, F, S.

Prerequisite: permission of instructor. Applied instruction in piano.

**MUS 152, 252, 352, 452 Organ.** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction in organ.

**MUS 153, 253, 353, 453 Voice.** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction in voice.

**MUS 155, 255, 355, 455 Woodwind (Instrument).** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, saxophone.

**MUS 156, 256, 356, 456 Brass (Instrument).** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction available in French horn, trumpet, trombone, baritone, tuba.

**MUS 157, 257, 357, 457 Percussion.** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction in percussion instruments.

**MUS 158, 258, 358, 458 Guitar.** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction in classical guitar.

**MUS 159, 259, 359, 459 Harp.** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction in harp.

**MUS 160, 260, 360, 460 Carillon.** 1-4, F,S.

Prerequisite: permission of instructor. Applied instruction in carillon.

## Ensembles

*Only 8 hours of ensembles can be counted toward a degree. All ensemble courses may be repeated for credit.*

**MUS 162, 262, 362, 462 Collegiate Chorale.** 1(0-2) F,S.

Chorus studies masterpieces of choral literature through preparation and performance of selected compositions; Spring Concert is presented yearly.

**MUS 165, 265, 365, 465 Chamber Singers.** 1(0-2) F,S.

Repertoire consists of vocal chamber music in the polyphonic style, Masses, Motets, Madrigals, Chansons, Polyphonic Lieder, from the 13th to 17th Centuries. Formal concert and public performances are given by the ensemble each year.

**MUS 168, 268, 368, 468 Concert Chorale.** 1(0-4) F,S.

Open to all students by audition. All types of Choral literature, accompanied and unaccompanied, are prepared and performed. Presents Christmas Concert, Spring Concert and programs to the area high schools.

**MUS 172, 272, 372, 472 Small Ensemble.** 1(0-2) F.

Prerequisite: permission of instructor. Ensembles may be arranged each semester in piano, voice, strings, wind instruments and percussion to meet needs of participating students and the department.

**MUS 173, 273, 373, 473 String Orchestra Workshop.** 1(1-1) F,S.

Prerequisite: permission of instructor. Study, performance of the literature and style of music for string ensembles of all sizes, a conducted group.

**MUS 174, 274, 374, 474 Jazz Ensemble.** 1(0-2) F,S.

Prerequisite: permission of instructor. Laboratory course in instrumentation, materials, arranging and organization of Jazz Ensemble.

**MUS 175, 275, 375, 475 Band.** 1(0-4) F,S.

Band performs as marching unit during football season and as indoor ensemble throughout the school year. Analytical study and stylistic performance of literature for conducted wind ensembles of all sizes. Band performs on campus, in area high schools and in the stadia of other colleges. Auditions for placement and additional group work required.

**MUS 176, 276, 376, 476 University Symphony.** 1(0-2) F,S.

The symphony performs music from the standard symphonic literature and cooperates with other ensembles to perform major choral and operatic works. Open to all University students by audition.

**MUS 178, 278, 378, 478 University/Community Band.** 1(0-2) F,S. Prerequisite: permission of instructor. Traditional-style concert band which provides performance opportunities for musicians from the university and the community at large. At least one concert is presented each semester.

**MUS 192, 292, 392, 492 Accompanying.** 1(0-2) F,S. Prerequisite: permission of instructor. Development of skills in accompanying for pianist.

**MUS 193, 293, 393, 493 Opera Workshop.** 1(0-2) F,S. Preparation and production of opera as it pertains to singing actors and ensembles. Technical preparation, lighting, set design, set building.

**MUS 280, 380, 480 Musical Theatre Workshop.** 2(0-4) F,S. Prerequisite: permission of instructor. Performance laboratory for students majoring in Musical Theatre. Preparation and performance of musical numbers from the musical theatre repertoire. Emphasis will be placed on the synthesis of performance techniques related to various musical styles. May be repeated for credit.

## General Music Courses

**MUS 30 Applied Strings (Pre-Audition).** 1-4, F. Applied instruction in strings. Holding registration for students not previously auditioned for studio assignment.

**MUS 40 Applied Voice (Pre-Audition).** 1-4, F. Applied instruction in voice. Holding registration for students not previously auditioned for studio assignment.

**MUS 50 Applied Keyboard (Pre-Audition).** 1-4, F. Applied instruction in keyboard. Holding registration for students not previously auditioned for studio assignment.

**MUS 60 Applied Woodwinds (Pre-Audition).** 1-4, F. Applied instruction in woodwinds. Holding registration for students not previously auditioned for studio assignment.

**MUS 70 Applied Brass (Pre-Audition).** 1-4, F. Applied instruction in brass. Holding registration for students not previously auditioned for studio assignment.

**MUS 80 Applied Percussion (Pre-Audition).** 1-4, F. Applied instruction in percussion. Holding registration for students not previously auditioned for studio assignment.

**MUS 100 Music Fundamentals.** 2(2-0) F. Rudiments of music (scales, key signatures, rhythms, intervals, notation) with their application within the context of music. Credit-by-exam is available.

**MUS 101 Beginning Piano.** 1(0-2) F,S. Group instruction for students who wish to explore music through the medium of piano. Classes are taught in an 18-unit Wurlitzer Electronic Piano Laboratory. Course content includes development of keyboard familiarity and technique, introduction to music reading, improvisation, repertory pieces, and rudiments of music theory. No previous piano is required. Does not apply toward a major or minor in music.

**MUS 102 Intermediate Piano.** 1(0-2) F,S. Prerequisite: MUS 101 or permission of instructor. Group instruction for students with some piano background who wish to further develop their skills. Classes are taught in the Wurlitzer Electronic Piano Laboratory, and include the following: development of piano technique, repertory study, ensemble playing, improvisation, development of sight-reading skills, and study of music theory. Does not apply toward the major in music.

**MUS 107 Recital Attendance I.** 0(0-0) F,S. Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The fulfillment of any part of these requirements by non-departmental concerts must be pre-approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 108 Recital Attendance II.** 0(0-0) F,S. Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The

fulfillment of any part of these requirements by non-departmental concerts must be pre-approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 109 Musical Elements of Popular Styles.** 2(2-0) S. Prerequisite: MUS 100 or permission of instructor. Study of melodic, harmonic, and rhythmic structural elements of Western music, with an emphasis on contemporary popular song forms. Construction and analysis of common harmonic progressions in popular music. Emphasis on contemporary and chord notation, extended chords, leadsheet notation, and contemporary rhythmic practice.

**MUS 110 Aural/Keyboard Skills and Applications I.** 1(0-2) S. Prerequisite: MUS 109 or permission of instructor. Sight singing in major and minor keys. Rhythmic, melodic, and harmonic dictation. Introduction to music software. Introduction to the piano keyboard, with emphasis on major and minor scale and primary triad performance.

**MUS 111 (121) Theory I.** 2(2-0) F. Notation, clefs and scales, intervals, rhythm and meter; written, oral and keyboard construction of major, minor, diminished and augmented triads; analysis of writing of four-part harmony in root position, first and second inversions; non-harmonic tones, cadences, figured bass; music terms, review and drill on fundamentals. Keyboard harmony incorporating materials studied. Students failing a fundamentals examination will be strongly encouraged to meet two additional hours per week at arranged times. Credit-by-exam is available.

**MUS 112 Sight Singing and Ear Training I.** 1(0-2) F. Melodic interval identification. Sight singing and dictation; rhythmic dictation; melodic dictation. Credit-by-exam is available.

**MUS 113 Theory II.** 2(2-0) S. Prerequisite: MUS 111. Secondary triads; dominant seventh and supertonic sevenths; elementary modulation to closely related keys; binary and ternary forms. Keyboard harmony incorporating materials studied. Credit-by-exam is available.

**MUS 114 Sight Singing and Ear Training II.** 1(0-2) S. Prerequisite: MUS 112. Melodic dictation; chord and figured bass identification of primary and secondary chords in root position and first inversion; rhythmic dictation and sight singing. Credit-by-exam is available.

**MUS 120 Theater Voice Class.** 1(0-2) F,S. Fundamentals of voice production. Singing techniques and styles used in the repertoire of the Musical Theater. May be repeated once for credit. Credit-by-exam is available.

**MUS 131 String Class I.** 1(0-2) F. Group instruction on the violin and viola; fingering and bowing problems are presented. Orchestral techniques of these instruments are studied.

**MUS 132 String Class II.** 1(0-2) S. Group instruction on the cello and bass; fingering and bowing problems are presented. Orchestral techniques of these instruments are studied.

**MUS 133 Guitar Class I.** 1(0-2) F. Group instruction in beginning guitar techniques and related literature.

**MUS 134 Guitar Class II.** 1(0-2) S. Prerequisite: MUS 133 or permission of instructor. Intermediate and advanced guitar techniques are studied, with related literature.

**MUS 135 Voice Class I.** 1(0-2) F. Fundamentals of voice production, breath management, resonance and diction. Voice diagnosis and application of vocal principles are given on an individual basis. Appropriate vocal exercises and song literature are employed for the development of a singing technique.

**MUS 136 Voice Class II.** 1(0-2) F,S. Prerequisite: MUS 135 or permission of instructor. Application of vocal principles is given on individual basis with the introduction of interpretation, style, and Italian diction.

**MUS 137 Piano Class I.** 1(0-2) F,S. Prerequisite: MUS 100 or MUS 111 or permission of instructor. Coordination exercises, major scales, harmonization with I, IV, V<sup>7</sup> chords,

transposition, reading, elementary repertoire. Credit-by-exam is available.

**MUS 138 Piano Class II.** 1(0-2) F,S.

Prerequisite: MUS 137. Minor scales, harmonization of major and minor melodies, transposition, reading, repertoire. Credit-by-exam is available.

**MUS 139 Instrument Maintenance.** 1(0-2) F,S.

Prerequisite: Missouri State 133 or permission of instructor. Instrument repair, source of difficulty and solution of minor problems. Experience in replacing cork, springs, pads and adjustments of instruments.

**MUS 141 Woodwind Class I.** 1(0-2) F,S.

Group instruction on clarinet and saxophone.

**MUS 142 Woodwind Class II.** 1(0-2) S.

Group instruction on flute and piccolo.

**MUS 143 Woodwind Class III.** 1(0-2) F.

Group instruction on oboe and bassoon.

**MUS 144 Brass Class I.** 1(0-2) F,S.

Group instruction on trumpet and French horn.

**MUS 145 Brass Class II.** 1(0-2) F,S.

Group instruction on trombone, baritone, and tuba.

**MUS 146 Percussion Class I.** 1(0-2) F,S.

Group instruction on snare drum, keyboard percussion, and timpani.

**MUS 147 Percussion Class II.** 1(0-2) F,S.

Prerequisite: MUS 146. Group instruction on marching percussion, auxiliary percussion, hand percussion, and drum set.

**MUS 148 Introduction to a Career in Music Education.** 1(1-1) F,S.

Prerequisite: music major or minor. Introduction to the music teaching profession. Includes current music education topics, observations, field experience, preliminary portfolio preparation, projects and information designed to aid students in deciding whether to enter the music teaching profession.

**MUS 200 Clinical Experiences in Music Education.** 3(2-4) F,S.

Prerequisite: MUS 148, and an initial C-Base exam must be taken. Concurrent enrollment in MUS 148 and MUS 200 is permitted with a minimum of 60 credit hours completed. Students enrolled attend a weekly clinical and/or discussion session on campus and participate in 40 hours of field experiences at the Greenwood Laboratory School and/or area schools. Principles and objectives of music education, methods of meeting the diverse educational needs of today's students; techniques of teaching music, unit construction and daily lesson planning, assessment and utilization of technology will be included in the seminar and field experiences components of this class. A grade of "C" or better is required in this course in order to take MUS 494 and MUS 496. This course may not be taken Pass/Not Pass.

**MUS 207 Recital Attendance III.** 0(0-0) F, S.

Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The fulfillment of any part of these requirements by non-departmental concerts must be pre-approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 208 Recital Attendance IV.** 0(0-0) F,S.

Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The fulfillment of any part of these requirements by non-departmental concerts must be pre-approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 210 Aural/Keyboard Skills and Applications II.** 3(3-0) F.

Prerequisite: MUS 110 or permission of instructor. Sight singing in major and minor keys, including modulation to closely related keys. Rhythmic, melodic, and harmonic dictation. Application of common music software. Keyboard performance of popular song forms, with emphasis on contemporary leadsheet realization.

**MUS 211 (125) Theory III.** 2(2-0) F.

Prerequisite: MUS 113. Diatonic seventh chords; altered and borrowed chords; secondary dominant and secondary leading tone chords; augmented and neopolitan sixth chords; augmented sixth chords; chords of the ninth, eleventh, and thirteenth; advanced modulation. Credit-by-exam is available.

**MUS 212 (126) Sight Singing and Ear Training III.** 1(1-1) F.

Prerequisite: MUS 114. Melody and rhythm dictation and sight singing; harmonic interval dictation and identification; dictation and identification of dominant seventh and diminished seventh chords in first inversion; major and minor triads in second inversion. Credit-by-exam is available.

**MUS 213 (127) Theory IV.** 2(2-0) S.

Prerequisite: MUS 211. Study of harmony, rhythm, form and melody as applying to Medieval Renaissance, Baroque, Classical, Romantic, Impressionistic and Contemporary periods. Credit-by-exam is available.

**MUS 214 (128) Sight Singing and Ear Training IV.** 1(1-1) S.

Prerequisite: MUS 212. Tonal and atonal sight singing, rhythmic and melodic dictation; harmonic dictation. Credit-by-exam is available.

**MUS 216 Introduction to Audio Techniques.** 3(3-0) F,Su.

The study and application of a wide variety of techniques used in the commercial music industry. Topic areas include sound and hearing, waveform theory, acoustics, microphones, multi-track recording, and basic usage of Musical Instrument Digital Interface (MIDI). Credit-by-exam is available.

**MUS 219 Jazz Improvisation I.** 2(1-2) D.

Prerequisite: MUS 113 and MUS 114 or permission of instructor. The study of beginning improvisation including chord/scale relationship, ii-V-I in all twelve major keys, blues, standards, and solo transcription.

**MUS 220 Jazz Improvisation II.** 2(1-2) D.

Prerequisite: MUS 219 or permission of instructor. The study of improvisation including chord/scale relationship, ii-V-I in all twelve minor keys, all forms of minor scales, modes, standards and solo transcription.

**MUS 235 (43) Voice Class III.** 1(0-2) F,S.

Prerequisite: MUS 136 or permission of instructor. Application and vocal principles is given on an individual basis with repertoire and diction in Italian, German, and French.

**MUS 236 (44) Voice Class IV.** 1(0-2) F,S.

Prerequisite: MUS 235 or permission of instructor. Application of vocal principles is given on an individual basis with the repertoire including songs and arias from operas and oratorios in Italian, French, German, and English.

**MUS 237 Piano Class III.** 1(0-2) F,S.

Prerequisite: MUS 138. Chord patterns for harmonization using secondary chords, broken chords, instrumental and vocal scores, ensemble playing, repertoire. Credit-by-exam is available.

**MUS 238 Piano Class IV.** 1(0-2) F,S.

Prerequisite: MUS 237. Modern harmonization, diminished and augmented chords, arpeggios, instrumental and vocal scores, ensemble-solo-duo playing. Credit-by-exam is available.

**MUS 239 Introduction to World Music.** 3(3-0) F,S.

An exploration of music from various cultures and time periods and the ways in which music promotes self-understanding by reflecting recurring patterns of human behavior.

**MUS 241 The Language of Music.** 3(2-2) or 3(3-0) F,S.

A study of the ways music creatively expresses self-understanding, cultural environment, and aesthetic values from ancient to modern times. Open to all students except music majors.

**MUS 249-293.** See MUS 149-193.

**MUS 294 Singing Diction I.** 2(2-0) S.

Basic vocal pronunciations in the singing of musical literature in Italian, Latin, and French.

**MUS 295 Singing Diction II.** 2(2-0) F.

Basic vocal pronunciations in the singing of musical literature in English and German.

**MUS 300 Current Trends in Elementary Music.** 3(3-0) S.

A study of contemporary approaches to music education. The course will survey various curricula and will study current approaches including those of Orff and Kodaly.

**MUS 301 Service Learning in Music.** 1 F,S.

Prerequisite: 30 hours, concurrent registration in a Music course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Music to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefit an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**MUS 302 Music for Elementary Teachers.** 2(2-0) F.

Music materials used in the elementary classroom class; evaluation of basic texts and equipment.

**MUS 303 Music for the Classroom Teacher.** 3(3-0) F,S.

Prerequisite: ELE 302. Music materials of elementary class room presented through methods that are most often used. Credit only on elementary curricula.

**MUS 305 Survey of Classroom Instruments.** 2(2-0) FE.

Development of playing skills with instruments found in the elementary classroom. Course will include a study of the use of these instruments as they relate to elementary music education.

**MUS 306 Interrelated and Integrated Arts.** 3(1-4) D.

Prerequisite: ELE 302. Theory, methodology, and activities for teaching the arts to children, from early childhood through Grade 6. A creative experiential approach, emphasizing how the four primary art forms (drama, movement, music, and art) relate to and enhance one another and facilitate the child's learning in other content areas. Students who receive credit for this course will not receive credit for THE 306, DAN 306, or ART 306.

**MUS 307 Recital Attendance V.** 0(0-0) F,S.

Prerequisite: piano proficiency. Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The fulfillment of any part of these requirements by non-departmental concerts must be pre-approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 308 Recital Attendance VI.** 0(0-0) F,S.

Prerequisite: piano proficiency. Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The fulfillment of any part of these requirements by non departmental concerts must be pre approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 313 (513) 16<sup>th</sup> Century Counterpoint.** 2(2-0) SE.

Prerequisite: MUS 213 and MUS 214. Analysis and writing in the style of the vocal music of the late Renaissance as embodied in the sacred vocal works of Palestrina.

**MUS 314 (514) 18<sup>th</sup> Century Counterpoint.** 2(2-0) SO.

Prerequisite: MUS 213 and MUS 214. Analysis and writing in the style of the instrumental music of the late Baroque as embodied in the keyboard works of J.S. Bach.

**MUS 315 (515) Form and Analysis.** 2(2-0) S.

Prerequisite: MUS 213 and MUS 214. The study of formal aspects of music, ranging from smaller structural units to complete movements. Analysis of forms and styles from selected historical periods.

**MUS 316 Advanced Audio Recording Techniques.** 3(3-0) S.

Prerequisite: MUS 216. Digital, advanced audio recording technology for radio, television, and video post production. Emphasis will be placed on the recording, editing, and mixdown of production projects. Topic areas include microphone placement, multi-track recording, digital theory, synchronization concepts, and the art of mixdown.

**MUS 319 Jazz Improvisation III.** 2(1-2) D.

Prerequisite: MUS 220. The study of advanced improvisation including chord/scale relationship, continued study of ii-V-I in all twelve major and minor keys, diminished, whole-tone, and altered dominant scales. Standards and solo transcriptions will be analyzed and performed.

**MUS 321 Conducting.** 2(2-0) F,S.

Prerequisite: MUS 213. Fundamentals of conducting, with emphasis upon basic baton techniques, transposition and score reading.

**MUS 322 Conducting—Choral.** 2(2-0) S.

Prerequisite: MUS 321. Conducting techniques specifically related to choral music.

**MUS 323 Conducting—Instrumental.** 2(2-0) S.

Prerequisite: MUS 321. Conducting techniques specifically related to instrumental music.

**MUS 327 Composition Class.** 2(2-0) S.

Prerequisite: MUS 113 and MUS 114. Requires composition of short musical pieces using a variety of styles, and the analysis of works by 20th century composers.

**MUS 328 Instrumentation.** 2(2-0) F.

Prerequisite: MUS 213 and MUS 214. Techniques, arranging, scoring and transcribing for large and small ensembles; with attention given to the practical application in a teaching situation.

**MUS 337 Piano Class V.** 1(0-2) F,S.

Prerequisite: MUS 238 or permission of instructor. Study of functional piano skills for classroom and studio use. Class members participate in simulated rehearsal situations involving accompanying, transposition, harmonization, and score reading at the piano. Emphasis is also placed on development of sightreading skills. Credit-by-exam is available.

**MUS 338 Piano Class VI.** 1(0-2) F,S.

Prerequisite: MUS 337 or permission of instructor. Study of advanced functional skills for classroom and studio use. Class members participate in simulated rehearsal situations involving accompanying, transposition, harmonization, and score reading at the piano. Emphasis is also placed on development of sightreading skills. Credit-by-exam is available.

**MUS 340 Adaptive Music for Special Learners.** 2(2-0) F.

Prerequisite: music major and admitted to teacher education program. Introduction to the teaching of music students with disabilities in a school setting. The course will provide an overview of characteristics and identification criteria for both individuals with disabilities and also the gifted. Legislation and process pertaining to special education will be addressed along with a focus on teaching individuals with diversity in the elementary, middle, and secondary educational setting.

**MUS 343 Musical Theatre History I.** 3(2-2) F.

Development of musical theatre in England, continental Europe and America from *The Beggar's Opera*, 1728 to *Show Boat*, 1927.

**MUS 344 Musical Theatre History II.** 3(2-2) S.

Development of musical theatre mainly in America from *Show Boat*, 1927 to present.

**MUS 345 Music in Western Culture and Society I.** 3(3-0) F.

Prerequisite: Writing II or permission of instructor. The historical unfolding of western art music and the ways in which culture and society

have played a central role in that development. Music from the Middle Ages to the Baroque will be studied from the perspective of the way in which it has been influenced and in turn influenced religion, politics, economics, and other social issues.

**MUS 346 Music in Western Culture and Society II.** 3(3-0) S.

Prerequisite: Writing II or permission of instructor. The historical unfolding of western art music and the ways in which culture and society have played a central role in that development. Music from the Classical era to the Twentieth century will be studied from the perspective of the way in which it has been influenced and in turn influenced religion, politics, economics, and other social issues.

**MUS 349-393.** See MUS 149-193.

**MUS 398 Junior Recital.** 1(0-2) F,S.

Preparation and public presentation of a solo recital in the student's major applied area. Required of all music majors on the Bachelor of Music-Performance degree. The student must have reached the applied level appropriate for the junior year as well as passed a recital hearing before the performance can occur.

**MUS 399 Special Topics in Music.** 1-3, D.

Prerequisite: permission of instructor. A variable content, variable credit course. Specific subject matter will change from semester to semester; topic of interest determined by student and professor. May be repeated, as topics change, to maximum of 6 credit hours. Variable Content Course.

**MUS 407 Recital Attendance VII.** 0(0-0) F,S.

Prerequisite: piano proficiency. Attendance of at least six music major convocations, one faculty recital, and eight other recitals or concerts sponsored by the department. The fulfillment of any part of these requirements by non departmental concerts must be pre approved by the student's major applied teacher or the department head. Credit will not be given to students who arrive after the recital/concert begins. Graded Pass/Not Pass only.

**MUS 410 Secondary Choral Methods and Materials.** 3(3-0) F.

Prerequisite: admission to Teacher Education Program, MUS 214, 322, 518. Explores effective music methods and teaching strategies utilized in vocal programs in middle or junior high schools and in high schools. Includes organization and administration of vocal music classes commonly found in programs at those levels. Survey and analysis of choral music for large and small choral ensembles of all types and levels.

**MUS 411 (511) Secondary Instrumental Methods and Materials.** 3(3-0) F.

Prerequisite: admission to Teacher Education Program, MUS 214, MUS 328, MUS 323. Explores effective music methods and teaching strategies utilized in instrumental programs in middle or junior high schools and in high schools. Includes organization and administration of instrumental music classes commonly found in programs at those levels. Survey and analysis of instrumental music for large and small instrumental ensembles of all types and levels (K-12).

**MUS 429 Instrumental Materials and Pedagogy.** 2(2-0) D.

Prerequisite: permission of instructor. Techniques, their development, application in studio teaching. Demonstration and supervised teaching of private instruction. Each semester emphasis will be placed on a certain instrumental family: string, brass, woodwind, keyboard.

**MUS 430 (ELE) Teaching of Music in the Grades.** 3(2-2) S.

Prerequisite: admission to Teacher Education Program, MUS 214 or permission of department head. Methods of teaching music in the elementary schools. Credited only on Bachelor of Music Education degree.

**MUS 449-493.** See MUS 149-193.

**MUS 488 Seminar in Student Teaching.** 2(2-0) F,S.

Prerequisite: all course work required for the Bachelor of Music Education completed, and combined GPA of 2.50, and concurrent enrollment in MUS 494 and MUS 496. A seminar designed for the purpose of discussion and analysis of field experiences during the student teaching semester. Additional topics will include: Theory into Practice (application of learning theories), The Job Search, Diversity in the Classroom, Completing the Professional Portfolio, Classroom As-

essment, and Management Enhancement. Students attend (in person or on-line) weekly 2-hour seminars.

**MUS 494 Supervised Teaching in Elementary General Music.** 4(4-0) F,S.

Prerequisite: all course work required for the Bachelor of Music Education completed, and combined GPA of 2.50, and concurrent enrollment in MUS 488 and MUS 496. Students will observe and then teach for 8 weeks under the supervision of the cooperating teacher and university supervisor. Students will demonstrate a mastery of the MoSTEP quality indicators that make up the student teaching evaluations. Participation in extra-curricular activities and other duties as assigned by the cooperating teacher and supervisor will be expected. Students will be involved in the development of lessons, materials, and units appropriate for children in elementary settings. Students will be required to complete work on the Professional Preparation Portfolio, which will be included as a portion of the class grade.

**MUS 496 Supervised Teaching in Secondary Music.** 4(4-0) F,S.

Prerequisite: all course work required for the Bachelor of Music Education completed, and combined GPA of 2.50, and concurrent enrollment in MUS 488 and MUS 494. Students will observe and then teach for 8 weeks under the supervision of the cooperating teacher and university supervisor. Students will demonstrate a mastery of the MoSTEP quality indicators that make up the student teaching evaluations. Participation in extra-curricular activities and other duties as assigned by the cooperating teacher and supervisor will be expected. Students will be involved in the development of lessons, materials, and units appropriate for children in secondary settings. Students will be required to complete work on the Professional Preparation Portfolio, which will be included as a portion of the class grade.

**MUS 498 Senior Recital.** 0, F,S.

Preparation and public presentation of a solo recital in the student's major applied area. The student must have reached the final applied level appropriate to the degree, as well as passed a recital hearing, before the performance can occur.

**MUS 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**MUS 501 Music Education Workshop.** 1-3, SU.

Prerequisite: senior or graduate standing. Variable topics related to music education instruction. Number of class hours determined by length of workshop and depth of topic. May be repeated for a maximum of 5 credit hours.

**MUS 503 Orff in the Classroom.** 3(3-0) F.

A study of music education using the approach developed by Carl Orff. Will include creative techniques including instruments, singing and movement.

**MUS 504 The Methodology of Zoltan Kodaly.** 3(3-0) S.

The development of music literacy according to the sequential program of Zoltan Kodaly.

**MUS 506 (406) Band Administration and Materials.** 1-3, FE.

Prerequisite: music major and 60 hours. Practicum and experience in all aspects of the successful band program. Includes organizational strategies and review of large and small ensemble literature for marching band, stage band, jazz band, and concert band.

**MUS 510 Choral Literature and Materials for Secondary Levels.** 2(2-0) S.

Survey and analysis of choral music for large and small ensembles including glee clubs, mixed choruses and choirs of all levels of performance (7-12).

**MUS 512 Electronic Music.** 3(1-4) FO.

Exploration of theories and techniques of sound synthesis, sequencing, and digital audio through composition. May be repeated to a total of 6 hours when topic varies. Variable Content Course.

**MUS 516 Composition I.** 2-4, F,S.

Prerequisite: MUS 327. Elementary composition of pieces in a variety of forms. Emphasis on works for piano, solo instruments or voice. Adapted to meet the needs of the individual student.

**MUS 517 Composition II.** 2-4, F,S.

Prerequisite: MUS 516. Intermediate level composition. Emphasis on writing for small groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student.

**MUS 518 Choral Arranging.** 2(2-0) F.

Prerequisite: MUS 213 and MUS 214. Techniques of arranging for small and large choral ensembles; with attention given to the practical application in a teaching situation.

**MUS 520 Composition III.** 2-4, F,S.

Prerequisite: MUS 517. Composing for larger groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student.

**MUS 521 Composition IV.** 2-4, F,S.

Prerequisite: MUS 520 Advanced composition. A wide variety of mediums and styles are possible including electronic music of all types. Adapted to meet the needs of the individual student.

**MUS 523 Keyboard Literature.** 2(2-0) F.

Prerequisite: MUS 345 and MUS 346. Keyboard works from the 17th century to the present.

**MUS 524 Song and Opera Literature.** 2(2-0) FE.

Prerequisite: MUS 345 and MUS 346. Italian arias, German Lieder; representative songs by French, English, and American composers; standard operatic repertoire in relation to the composer's style and the period of theater and music history from which they emanate.

**MUS 526 Advanced Arranging.** 3(1-4) D.

Prerequisite: MUS 213 and MUS 214. Independent study or three hour seminar per week. Techniques of arranging for various choral or instrumental groups, suited to the need of the individual student. May be repeated to a total of 6 hours when topic varies. Variable Content Course.

**MUS 529 Introduction to Commercial Music.** 3(3-0) S.

Prerequisite: permission of instructor. A comprehensive survey of various aspects of music associated with the entertainment industry. Students will be exposed to a wide variety of topics including song and advertising jingle writing, scoring for film and video, negotiating contracts, and dealing with music publishers.

**MUS 530 Vocal Pedagogy and Materials.** 3(3-0) FO.

Prerequisite: permission of instructor and 90 hours and passing of piano proficiency. Understanding the basic principles of voice production and their application to the training of singers. A comparative study of different pedagogical approaches to voice training. Including a survey of materials needed in successful programs of choral and vocal education in secondary schools for all levels of performance.

**MUS 535 Advanced Woodwind Techniques.** 2(1-2) D.

Special problems and techniques in the teaching of woodwind instruments. Current materials are surveyed.

**MUS 536 Advanced Brass Techniques.** 2(1-2) D.

Special problems and techniques in the teaching of brass instruments. Current materials are surveyed.

**MUS 537 Advanced Percussion Techniques.** 2(1-2) D.

Special problems and techniques in the teaching of percussion instruments. Current materials are surveyed.

**MUS 538 Survey of Pedagogical Methods.** 2(2-0) D.

A study of methods of teaching applied music.

**MUS 539 String Pedagogy and Instrumental Literature and Materials for Elementary and Secondary Levels.** 3(3-0) S.

Prerequisite: music major and 60 hours. Students will explore all aspects of orchestra and string programs for elementary and secondary education. Literature appropriate for beginning and advanced levels in school string programs will be addressed.

**MUS 543 Music of the Renaissance.** 3(3-0) D.

Prerequisite: MUS 239 and MUS 345 and MUS 346. A comprehensive study of Western music from the Franco-Netherlands composers to Monteverdi (c. 1450 to 1600).

**MUS 544 Music of the Baroque Era.** 3(3-0) D.

Prerequisite: MUS 239 and MUS 345 and MUS 346. A comprehensive study of Western music from monody to J.S. Bach and Handel (c. 1600 to 1750).

**MUS 545 Music of the Classical Era.** 3(3-0) D.

Prerequisite: MUS 239 and MUS 345 and MUS 346. A comprehensive study of Western music from pre-classicism to Beethoven (c. 1750 to 1810).

**MUS 546 Music of the Romantic Era.** 3(3-0) D.

Prerequisite: MUS 239 and MUS 345 and MUS 346. A comprehensive study of Western music from Beethoven to the post-romantic composers (c. 1800 to 1900).

**MUS 547 Music of the 20th Century.** 3(3-0) D.

Prerequisite: MUS 239 and MUS 345 and MUS 346. A comprehensive study of Western music from 1900 to the present.

**MUS 548 Choral Literature.** 2(2-0) D.

Prerequisite: MUS 345 and MUS 346. Choral literature from the Renaissance through the 20th Century.

**MUS 549 String (Instrument).** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, and bass viol. May be repeated for credit.

**MUS 550 Harpsichord.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in harpsichord. May be repeated for credit.

**MUS 551 Piano.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit.

**MUS 552 Organ.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit.

**MUS 553 Voice.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit.

**MUS 555 Woodwind.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in flute, oboe, clarinet, bassoon, and saxophone. May be repeated for credit.

**MUS 556 Brass.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in trumpet, French horn, trombone, euphonium and tuba. May be repeated for credit.

**MUS 557 Percussion.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction on percussion instruments. May be repeated for credit.

**MUS 560 Carillon.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit.

**MUS 572 Piano Ensemble.** 1(0-2) F,S.

Prerequisite: permission of instructor. The student will strengthen ensemble and rehearsal techniques through the study and performance of piano four-hand and duo literature. May be repeated for credit.

**MUS 574 Jazz Ensemble.** 1(0-2) F,S.

Prerequisite: permission of instructor. A Laboratory course in instrumentation, materials, arranging, and organization of the jazz ensemble. May be repeated for credit.



**MUS 575 Band.** 1(0-2) F,S.

The band performs as a marching unit during the football season and as an indoor ensemble throughout the school year. Formal concerts and public performances are given by the ensemble each year. Auditions for placement are required. May be repeated for credit.

**MUS 578 University/Community Band.** 1(0-2) F,S.

Prerequisite: permission of instructor. Traditional style concert band which provides performance opportunities for musicians from the university and the community at large. At least one concert is presented each semester. May be repeated for credit.

**MUS 580 Instrumental Conducting.** 3(3-0) F,Su.

Prerequisite: MUS 323 or permission of instructor. A study of conducting techniques and problems in rehearsal and performance. Baton technique and repertoire development.

**MUS 581 Choral Conducting.** 3(3-0) F,Su.

Prerequisite: MUS 323 or permission of instructor. A study of conducting techniques and problems in rehearsal and performance. Conducting technique and repertoire development.

*The following courses are open only to graduate students.***MUS 600 Introduction to Graduate Study in Music.** 3(3-0) F,S.

Prerequisite (for students in MS in Ed only): SFR 690 or concurrent enrollment. General introduction to graduate curriculum; planning the program; formal writing style, sources used in research; study of methods in research. Required of all candidates.

**MUS 601 Music Education Curriculum.** 3(3-0) D.

An examination of trends in elementary, middle, and secondary music education; evaluation of selected materials and techniques; and special projects in planning for change in music education curriculum.

**MUS 602 Elementary Music Education.** 3(3-0) Su.

Study of problems in planning a music program to encourage children's aesthetic enjoyment of music; teaching principles and methods for guided learning through creative discovery; use of instructional media for providing such experiences.

**MUS 603 Middle School/Junior High Vocal Materials.** 3(3-0) Su.

Group discussion; individual study and research on projects approved by Music Education faculty; individual conferences with assigned faculty members, oral report and a document at conclusion of semester.

**MUS 604 Music Literature for Children: Performing and Listening.** 3(3-0) D.

Survey of appropriate literature for choral organizations at the elementary level and materials appropriate for developing listening skills.

**MUS 605 Instrumental Music in the Elementary, Middle and Secondary Schools.** 2(2-0) Su.

Organization of beginning instrumental program; articulation of instrumental instruction in elementary, middle school/junior high, and senior high school.

**MUS 607 Psychology of Music.** 3(3-0) D.

Adapted to the view of the music educator. Emphasis is placed upon the physics of sound, psychology of performance and teaching, and the principles of listening.

**MUS 608 Contemporary Music Education.** 3(3-0) D.

A study of current trends and contemporary issues relevant to education and/or music education, as identified from various sources, and what impact they may or may not have on music education.

**MUS 610 Secondary General Music.** 3(3-0) D.

A survey of general music at the high school level with emphasis on developing programs to meet specific educational settings.

**MUS 615 Advanced Composition.** 3(3-0) D.

Prerequisite: permission of instructor. Private compositional study for graduate students. May be repeated to a total of 9 hours when topic varies. Variable Content Course.

**MUS 620 Directed Study in Music Education.** 1-3, F,S.

Prerequisite: MUS 600 and permission of instructor. Individual study and research on projects approved by Music Education faculty; individual conferences with assigned faculty members; oral report and a document at conclusion of semester. May be repeated to a total of 3 hours.

**MUS 625 History and Philosophy of Music Education.** 3(3-0) D.

Prerequisite: MUS 600 or concurrent enrollment. History of educational philosophies and objectives.

**MUS 627 (527) Seminar: Music Theory.** 3(3-0) FE.

Prerequisite: permission of instructor. A study of various aspects of music theory, including analysis and pedagogy, researched from primary and secondary sources from the medieval period through the present.

**MUS 628 Pedagogy of Music Theory.** 3(3-0) Su.

Techniques of teaching harmony and ear training as well as other theoretical aspects of music to high school and college music students.

**MUS 638 Survey of Pre-College Repertoire.** 2(2-0) S,Su.

Prerequisite: MUS 538. An examination of appropriate repertoire from the Baroque, Classical, Romantic, and Twentieth-Century style periods for beginner, intermediate, and advanced pre-college students.

**MUS 639 Pedagogy Practicum I.** 3(2-2) F.

A course consisting of three components: class meetings for the discussion of teaching techniques, observation of the teaching of experienced teachers, supervised student teaching.

**MUS 640 Pedagogy Practicum II.** 3(0-6) S.

Prerequisite: MUS 639. Private teaching of a prescribed number of pre-college students of various levels of advancement under guidance of pedagogy instructor. Pedagogy students must present assigned pre-college students in an end-of-semester recital.

**MUS 644 Directed Study in Music Theory.** 1-3, F,S.

Prerequisite: permission of instructor. Individual study on approved projects; individual conferences with assigned faculty member. May be repeated to a total of 3 hours.

**MUS 645 Directed Study in Music History and Literature.** 1-3 D.

Advanced study in special topics of music history and literature. May be repeated to a total of 3 hours when topic varies. Variable Content Course.

**MUS 646 Seminar: Symphonic Literature.** 3(3-0) D.

A survey of the repertoire for orchestras of varying sizes and ability levels. May be repeated for credit for a total of 6 hours when topic varies. Variable Content Course.

**MUS 647 Seminar: Wind Literature.** 3(3-0) D.

A survey of the repertoire for wind groups of various sizes and ability levels. May be repeated to a total of 6 hours when topic varies. Variable Content Course.

**MUS 648 Seminar: Choral Literature.** 3(3-0) D.

A survey of the repertoire for choral groups of various sizes and ability levels. May be repeated to a total of 6 hours when topic varies. Variable Content Course.

**MUS 649 String (Instrument).** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, and bass viol. May be repeated for credit.

**MUS 650 Harpsichord.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in harpsichord. May be repeated for credit.

**MUS 651 Piano.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit.

**MUS 652 Organ.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit.

**MUS 653 Voice.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit.



**MUS 655 Woodwind (Instrument).** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, and saxophone. May be repeated for credit.

**MUS 656 Brass.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction available in trumpet, french horn, trombone, euphonium and tuba. May be repeated for credit.

**MUS 657 Percussion.** 1(0-2) F,S.

Prerequisite: permission of instructor. Applied instruction on percussion instruments. May be repeated for credit.

**MUS 660 Carillon.** 1-2, F,S.

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit.

**MUS 662 Collegiate Chorale.** 1(0-2), F,S.

The chorus membership studies the masterpieces of choral literature through preparation and performance of selected compositions. A spring concert is presented each year. May be repeated for credit.

**MUS 665 Chamber Singers.** 1(0-2) F,S.

Repertoire consists of vocal chamber music on polyphonic style, Masses, Motets, Madrigals, Chansons, and polyphonic lieder, from the 13th to 17th centuries. A formal concert and public performances are given by the ensemble each year. May be repeated for credit.

**MUS 667 Lyric Singers.** 1(0-2) F,S.

The membership is open by audition. All types of choral literature for women's voices are studied. All types of choral literature for women's voices are studied. Concerts are presented on campus and to area high schools. Active involvement in conducting, score analysis, research of literature performed, and administration of the ensemble. May be repeated for credit.

**MUS 668 Concert Chorale.** 1(0-4) F,S.

The choir is open to all college students by try out. All types of Choral literature, accompanied and unaccompanied, are prepared and performed by its members. The choir presents a Christmas concert, a spring concert, and programs to area high schools. May be repeated for credit.

**MUS 669 Missouri State Singers.** 1(0-2) F,S.

Membership open by audition. Choral literature of various types and periods for men's voices will be studied. Active involvement in conducting and administration of the ensemble. May be repeated for credit.

**MUS 672 Small Ensemble.** 1(0-2) F,S.

Prerequisite: permission of instructor. Ensembles may be arranged each semester in the fields of piano, voice, strings, wind instruments, and percussion to meet the needs of participating students and the department. May be repeated for credit.

**MUS 673 String Orchestra Workshop.** 1(0-2) F,S.

Prerequisite: permission of instructor. Study and performance of the literature and style of music for string ensembles of all sizes. A conducted group. May be repeated for credit.

**MUS 674 Stage Band.** 1(0-2) F,S.

Prerequisite: permission of instructor. A laboratory course in instrumentation, materials, arranging and organization of the stage band. May be repeated for credit.

**MUS 675 Band.** 1(0-4) F,S.

Prerequisite: permission of instructor. The band performs as a marching unit during the football season and as an indoor ensemble throughout the school year. Formal concerts and public performances are given by the ensemble each year. Auditions for placement are required. May be repeated for credit.

**MUS 676 University Symphony.** 1(0-4) F,S.

Symphony performs and reads music from standard orchestral literature and accompanies opera productions. Open to all university orchestral players by audition. May be repeated for credit.

**MUS 678 University/Community Band.** 1(0-2) F,S.

Prerequisite: permission of instructor. Traditional-style concert band which provides performance opportunities for musicians from the university and the community at large. At least one concert is presented each semester. May be repeated for credit.

**MUS 680 Practicum in Advanced Conducting.** 3(2-2) D.

Prerequisite: MUS 580 or MUS 581 or permission of instructor. A study of techniques needed to project the conductor's concept in rehearsal and performance. Participation in rehearsals under the supervision of the instructor. May involve conducting in public performance.

**MUS 681 Score Reading and Analysis.** 3(3-0) D.

Analysis of scores and its application to conducting. Development of skills in reading clefs and transpositions. May be repeated to a total of 6 hours when topic varies. Variable Content Course.

**MUS 690 Research Project.** 2(2-0) D.

Research in the student's major area of concentration, culminating in a written document. Topic to be chosen through consultation with the student's major advisor. May be repeated for credit.

**MUS 692 Accompanying.** 1(0-2) F,S.

Prerequisite: permission of instructor. Development of skills in accompanying for pianists. May be repeated for credit.

**MUS 697 Directed Study in Pedagogy.** 1-3 D.

Advanced study in special topics in pedagogy. May be repeated to a total of 3 hours when topic varies. Variable Content Course.

**MUS 698 Graduate Recital.** 2(0-4) F,S.

Fulfills half of the final project requirement for concentrations in performance, pedagogy, and conducting.

**MUS 699 Thesis.** 1-6, F,S.

Prerequisite: permission of instructor. Selection of thesis topic, research or compositional techniques to be employed, compilation of bibliography, guidance of compilation and interpretation of data; organization and writing of study or writing of composition and description including program notes.

## Department of Theatre and Dance

355 Craig Hall, Phone: 836-4400, FAX: 836-4234  
Email: [TheatreandDance@missouristate.edu](mailto:TheatreandDance@missouristate.edu)

**Acting Department Head:** Professor Wade S. Thompson, M.F.A.

**Professor:** Rhythm McCarthy, M.F.A.

**Associate Professors:** Louis Bird, M.F.A.; Sara Brummel, M.F.A.; Sharon Ellis, M.A.; Jodi Kanter, Ph.D.; Robert Little, M.F.A.; Mark Putman, M.F.A.; Cynthia Winstead, M.F.A.

**Assistant Professors:** Kelly Ann Bixby, M.F.A.; Sheila M. Gordon, M.F.A.; Kurt Heinlein, M.F.A.; Christopher Herr, Ph.D.; Bee Bee Lee, M.F.A.; James Woodland, M.F.A.

**Instructor:** Carol Maples, M.S.Ed.

**Technical Director:** Christopher DePriest, M.F.A.

**Dance Program Musician:** Raymond F. Castrey, B.M.

**Musical Theatre Musician:** Heather Luellen, B.M.

**Emeritus Professors:** Byrne D. Blackwood, Ph.D.; Robert H. Bradley, Ph.D.; Kathrine Brown, M.F.A.; Alice McElhaney, M.A.; John McElhaney, Ph.D.; F. Ruth McKenney, M.A.; Chyrel Miller, M.A.

**Accreditations and Approvals:** National Association of Schools of Theatre (NAST) – Musical Theatre, B.F.A., Speech and Theatre Education, B.S.Ed., Theatre, B.A., B.F.A., M.A.; Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Speech and Theatre, B.S.Ed., Secondary Education/Speech and Theatre, M.S.Ed.

### General Information and Restrictions

**General Education Courses:** THE 210 may be used to satisfy the Writing II requirement of the Basic Required Courses in General Education. These courses may be used to satisfy the Self-Understanding Area of Inquiry, Creativity and Vision Perspective portion of the general education requirement: DAN 180; THE 101 or 109. BFA majors within the Theatre and Dance department may not use these courses toward both the major requirements and the general education requirements.

**Fine Arts Courses—Bachelor of Arts Degree:** The following courses may be used to meet the Bachelor of Arts degree fine arts requirement: DAN 180; THE 101, 109, 541, 542, 543, 545, or 547. Courses cannot be used to meet both the fine arts requirement and the general education requirements for any student. BA in Theatre students may not count these courses toward both the major and the fine arts requirement.

## Majors

### Dance

#### Bachelor of Fine Arts

##### Admission Requirements

In addition to the University's admission requirements, students are required to audition for acceptance to the BFA in Dance program prior to the first semester of course work in the major. Auditions and interviews for a place in the program are held on campus in January of each year. Specific information as to the date and the process is available through the Department of Theatre and Dance.

A. General Education (see General Education section of catalog)

B. Major Requirements (72 hours)

1. Core Requirements (38 hours): DAN 125(1), 219(2), 320(2), 321(2), 364(3), 370(2), 371(2), 451(3), 452(3), 465(3), 470(2), 492(1); PED 250(3); THE 150(2) and 151(1), 255(2) and 256(1), 260(2) and 261(1)
2. Select one of the following options:
  - a. **Dance Studies Option** (34 hours):
    1. DAN 466(3)
    2. No fewer than 4 hours in: DAN 216(2), 316(2), 416(2)
    3. No fewer than 4 hours in: DAN 230(2), 330(2), 430(2)

4. No fewer than 4 hours in: DAN 245(2), 345(2), 445(2)

5. Additional 4 hours in above courses to total no less than 16 hours in dance techniques

6. Electives (15 hours) to be chosen from inside or outside the department with advisement

b. **Performance Option** (34 hours):

1. DAN 420(2)

2. No fewer than 8 hours in: DAN 216(2), 316(2), 416(2)

3. No fewer than 8 hours in: DAN 230(2), 330(2), 430(2)

4. No fewer than 6 hours in: DAN 245(2), 345(2), 445(2)

5. Electives (10 hours) to be chosen from DAN, MUS, THE courses

*NOTE: A student should be enrolled in at least one dance technique course per day throughout the four years.*

C. General Baccalaureate Degree Requirements

(see "Academic Programs and Requirements" section of catalog)

### Musical Theatre

#### Bachelor of Fine Arts

The primary objective of this program shall be the development of the singer/actor/dancer who possesses a strong foundation in the requisite skills to pursue a career as a performing professional in musical theatre, including "book" musicals and variety productions.

##### Admission Requirements

In addition to the University's admission requirements, students are required to audition for acceptance to the BFA in Musical Theatre program prior to the first semester of course work in the major. Auditions and interviews for a place in the program are held on campus in February of each year. Specific information as to the date and the process is available through the Department of Theatre and Dance.

##### Performance Reviews

In addition to the curricular requirements for the degree, students must successfully complete two performance reviews prior to graduation. These include a mid-program review after specified upper-level courses have been completed and an exit review given in one of the two semesters of the senior year.

A. General Education (see General Education section of catalog)

B. Major Requirements (84-85 hours)

1. Acting (12 hours): THE 121(2), 221(2), 321(2), 421(2), 451(2), 452(2)

2. Voice (17 hours): MUS 153(1), 253(1), 353(1), 453(1) for 8 semesters/11 hours; MUS 498(0); THE 126(2), 226(2), 424(2). All students must reach applied level eight
  3. History/Analysis (9 hours): THE 130(3), 581(3), 582(3)
  4. Technology (10 hours): THE 150(2), 151(1), 224(1), and select 6 hours from: THE 250(2) and 251(1), 255(2) and 256(1), 260(2) and 261(1)
  5. Musicianship (8 hours): MUS 100(2), 111(2), 112(1), 114(1), 137(1), 138(1)
  6. Dance/Movement (13-14 hours): THE 328(2); DAN 125(1), 348(2);  
Dance Technique classes (by placement):  
select 4 hours from: DAN 245(2), 345(2), 445(2)  
select 2-3 hours from: DAN 130(1) and 131(2), or DAN 230(2), 330(2), 430(2)  
select 2 hours from: DAN 216(2), 316(2), 416(2)
  7. Musical Theatre Workshop (5 semesters/10 hours) select from: MUS 280(2), 380(2), 480(2)
  8. Electives (5 hours): choose from Theatre, Music, or Dance courses with approval of advisor
- C. General Baccalaureate Degree Requirements  
(see "Academic Programs and Requirements" section of catalog)

## Speech and Theatre Education Bachelor of Science in Education (Certifiable grades 9-12)

- A. General Education (see General Education section of catalog)
- B. Major Requirements (53 hours)  
Students interested in teaching speech and theatre at the secondary level may choose one of two options: One option emphasizes theatre (see below) and the other emphasizes communication (see Department of Communication). Both options meet state certification requirements for Speech and Theatre Education.
  1. Core: COM 115(3), 209(3), 322(3), 332(3), 510(2); THE 130(3), 150(2), 151(1), 310(3), 430(3), 530(3)
  2. **Theatre Option:** THE 123(3), 125(2), 224(1), 250(2), 251(1), 255(2), 256(1), 260(2), 261(1), 541(3), 542(3); THE 505(3) or 506(3) or 515(3)
- C. Professional Education courses: THE 417(3), THE 490(6), THE 491(6) and see "Academic Programs and Requirements/Secondary Education" section of catalog
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## Theatre

### Bachelor of Fine Arts

#### Admission Requirements

In addition to the University's admission requirements, students are required to audition for acceptance to the BFA in Theatre Performance program prior to the first semester of course work in the major. Auditions and interviews for a place in the program are held on campus in February of each year. Specific information as to the date and the process is available through the Department of Theatre and Dance.

- A. General Education (see General Education section of catalog)
- B. Major Requirements (78-88 hours)
  1. Core Requirements (34 hours)

- a. Design/Technology (10 hours): THE 150(2) and 151(1); 224(1); choose two groups from THE 250(2) and 251(1), or THE 255(2) and 256(1), or THE 260(2) and 261(1)
  - b. Directing (9 hours): THE 130(3), 430(3); choose one from 505(3), 515(3), 530(3)
  - c. History (6 hours): THE 541(3), 542(3)
  - d. Performance (3 hours): THE 310(3)
  - e. Electives numbered 300 or above from approved courses inside or outside the department (5 hours)
  - f. Senior BFA Project: THE 492(1)
2. Choose one of the following options:
    - a. **Design/Technology** (44 hours):
      1. THE 123(3), 270(3), 271(3), 275(3), 280(3), 281(3), 292(1), 295(1), 354(3), 380(3), 381(3), 392(1), 395(1), 495(1), 561(3), 562(3); choose the course sequence from 250(2) and 251(1), 255(2) and 256(1), 260(2) and 261(1) not selected in the Design/Technology Core above
      2. Choose 3 hours from THE 350(3), 460(3), 558(3)
      3. Performance and Portfolio Review Requirement: Each Theatre Design/Technology major must successfully complete three portfolio reviews for graduation requirements. After specific core courses related to the student's option have been completed, he/she must pass an entrance review. A mid-program review is required after specified upper-level courses have been completed. The student must pass an exit review given in one of the two semesters of the senior year. It is the student's responsibility to apply for the reviews. Application forms and specific information are available in the Department of Theatre and Dance.
    - b. **Performance** (54 hours):
      1. THE 121(2), 126(2), 221(2), 226(2), 228(1), 229(1), 321(2), 326(2), 327(2), 328(2), 329(2), 411(2), 412(2), 421(2), 424(2), 426(2), 427(2), 451(2), 452(2), and 510(3)
      2. Choose 3 hours from: THE 543(3), 545(3), 547(3); or approved literature course(s) numbered 300 or above
      3. Seven semesters of Actor Seminar (7 hours): THE 196(1), 296(1), 396(1), 496(1)
      4. Two semesters (2 hours) of: MUS 120(1)
      5. Choose 3 hours from approved performance related electives from DAN, MUS, or THE courses
      6. Each candidate will meet with the performance faculty at the end of each spring semester to assess individual progress, strengths, and goals
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

**NOTE:** Six hours of the General Education Humanities Requirement may **not** be included in the courses fulfilling the BFA major.

## Theatre and Performance Studies (Non-Comprehensive)

### Bachelor of Arts

- A. General Education (THE 210(3) and see "Academic Programs and Requirements/General Education" section of catalog)
- B. Major requirements (35-36 hours)
  1. Theatre Reading and Writing (6 hours): THE 130(3), 210(3)
  2. Acting and Directing (6 hours): THE 123(3), 430(3)
  3. Theatre History (6 hours): THE 541(3), 542(3)
  4. Design/Technology (6 hours): THE 150(2), 151(1); choose 3 hours from THE 250(2) and 251(1), or THE 255(2) and 256(1), or THE 260(2) and 261(1), or THE 354(3)
  5. Theory (6 hours): THE 109(3), 497(3)
  6. Experimental Forms (2-3 hours): choose one course from THE 310(3), 510(3), 515(3), or DAN 219(2)

7. Theatre Elective (3 hours): choose one course from THE 505(3), 506(3), 543(3), 545(3), 547(3)

**NOTE:** Courses counted for the major may **not** also be counted for the Fine Arts requirements.

- C. Minor Required  
 D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)  
 E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minors

### Dance

#### Bachelor of Arts

#### Bachelor of Science

- A. 6 hours from: DAN 216(2), 316(2), 416(2), 230(2), 330(2), 430(2), 245(2), 345(2), 445(2)  
 B. DAN 451(3) or 452(3)  
 C. 9 hours of electives from: DAN 219(2), 320(2), 321(2), 370(2), 371(2), 451(3), 452(3), 465(3), 470(2) for a total of 18 hours

### Theatre

#### Bachelor of Arts

#### Bachelor of Science

- A. THE 130(3), 150(3)  
 B. One course from: THE 541(3), 542(3), 543(3), 545(3), 547(3)  
 C. 9 hours of THE electives of which 3 hours must be chosen from courses numbered 300 or above for a total of 18 hours

## Graduate Programs

The Master of Arts degree offers a major in Theatre. The Master of Science in Education degree (secondary education major) offers an area of emphasis in speech and theatre. See the Graduate Catalog for details.

## Dance Courses

### DAN 116 Modern Dance IA. 1(0-2) F,S.

Basic elements of modern dance technique with an emphasis on creative movement dynamics, rhythmic and spatial aspects, and alignment. Designed for students with little or no dance experience.

### DAN 117 Modern Dance IB. 2(0-4) F,S.

Prerequisite: DAN 116 or permission of instructor. Continues to explore the basic elements of modern dance technique and new ways of moving. Designed for students with at least one year of formal dance training.

### DAN 125 Tap Dance I. 1(0-2) F.

Basic elements of tap dance, stylized steps and terminology coordinated with the rhythmic structure of tap dance.

### DAN 130 Ballet IA. 1(0-2) F,S.

Fundamental techniques of classical ballet with an emphasis on alignment and basic classical vocabulary. Designed for students with little or no experience.

### DAN 131 Ballet IB. 2(0-4) F,S.

Prerequisite: DAN 130 or permission of instructor. Continues development of the basic fundamentals of classical ballet technique and vocabulary. Designed for students with at least one year of formal ballet training.

### DAN 145 Jazz Dance I. 1(0-2) F,S.

Techniques of jazz dancing; application to contemporary musical theatre performance.

### DAN 180 Introduction to the Dance. 3(3-0) F,S.

Survey of dance from a historical retrospective through the creative process. Emphasis will be placed on 20th century multi-cultural and societal influences on dance. The approach will be from the viewpoint of the audience to help heighten awareness of and increase critical thinking in relationship to the artistic experience. Buying tickets to and attendance at local productions required.

### DAN 216 Modern Dance II. 2(0-4) F,S.

Prerequisite: DAN 117. May be repeated to a total of 6 hours.

### DAN 217 Modern Dance II-B. 2(0-4) F,S.

Prerequisite: DAN 216. Continued development of the intermediate fundamentals of modern dance technique. Further exploration of movement dynamics, rhythmic and spatial aspects, musicality, and alignment. May be repeated to a total of 6 hours.

### DAN 219 Dance Improvisation. 2(0-4) S.

Prerequisite: DAN 117. Contemporary dance improvisation techniques.

### DAN 225 Tap Dance II. 2(0-4) F.

Prerequisite: DAN 125. May be repeated to a total of 4 hours.

### DAN 230 Ballet II. 2(0-4) F,S.

Prerequisite: DAN 131 or permission of instructor. Continues development of the basic fundamentals of classical ballet technique and vocabulary. May be repeated to a total of 6 hours.

### DAN 231 Ballet II-B. 2(0-4) F,S.

Prerequisite: DAN 230. Continued development of the intermediate fundamentals of ballet techniques. Further exploration and development of alignment, musicality, and ballet vocabulary. May be repeated to a total of 6 hours.

### DAN 235 Men's Dance Technique I. 2(0-4) S.

Prerequisite: DAN 117 or DAN 131 or DAN 145. Basic techniques for the male dancer. Emphasis will be on strength building and developing the male dancer's technique and style. May be repeated to a total of 4 hours.

### DAN 245 Jazz Dance II. 2(0-4) F,S.

Prerequisite: DAN 131 and DAN 145 or permission of instructor. Continues development of jazz technique and vocabulary. May be repeated to a total of 6 hours.

### DAN 247 Social and Period Dance. 2(1-2) D.

Basic social and period dance styles common to Musical Theatre productions.

### DAN 248 Musical Theatre Dance I. 2(1-2) D.

Prerequisite: DAN 145. This course will coordinate the elements of voice and dance as they relate to Musical Theatre. The skills of reading musical scores, breath control during choreography and stage presentation will be emphasized.

### DAN 306 Interrelated and Integrated Arts. 3(1-4) D.

Prerequisite: ELE 302. Theory methodology, and activities for teaching the arts to children, from early childhood through Grade 6. A creative experiential approach, emphasizing how the four primary art forms (drama, movement, music, and art) relate to and enhance one another and facilitate the child's learning in other content areas. Students who receive credit for this course will not receive credit for THE 306, MUS 306, or ART 306.

### DAN 316 Modern Dance III. 2(0-4) D.

Prerequisite: permission of instructor. May be repeated to a total of 6 hours.

### DAN 319 Contact Improvisation. 2(0-4) F.

Prerequisite: DAN 219. Contemporary dance improvisation that explores sharing weight, rolling, lifting, flying and finding one's center. Dancers will explore and focus on specific relationships in partnering. Previous movement studies (DAN 219) necessary.

### DAN 320 Dance Composition I. 2(0-4) F.

Prerequisite: DAN 219. Creative approaches to development of basic movement themes and simple and complex manipulations of those themes. Emphasis on solo and small group studies that explore time, shape, space and dynamics.

### DAN 321 Dance Composition II. 2(0-4) S.

Prerequisite: DAN 320. Further exploration of theme and manipulation as related to complex group compositional studies. Emphasis will be placed on spatial exploration and design, and various musical forms and structures.

**DAN 323 Musical Theatre Dance Choreography. 2(0-4) D.** Prerequisite: DAN 248. Acquaints the dancer with the elements of dance within a musical production. Working with a musical score while keeping the style of dance true to the production.

**DAN 325 Tap Dance III.** 2(0-4) S.

Prerequisite: DAN 225 or permission of instructor. May be repeated to a total of 4 hours.

**DAN 330 Ballet III.** 2(0-4) D.

Prerequisite: permission of instructor. May be repeated to a total of 6 hours.

**DAN 335 Men's Dance Technique II.** 2(0-4) F.

Prerequisite: DAN 235. Continued techniques for the male dancer. Emphasis will be on strength building and developing the male dancer's technique and style. May be repeated to a total of 4 hours.

**DAN 345 Jazz Dance III.** 2(0-4) D.

Prerequisite: permission of instructor. May be repeated to a total of 6 hours.

**DAN 348 Partnering.** 2(0-4) S.

Prerequisite: any two of the following courses: DAN 216, DAN 230, DAN 245. Exploration of the fundamental and effective techniques of contemporary partnering. Includes the physics and dynamics of dance partnering that is essential to Musical Theatre choreography and concert dance. May be repeated to a total of 4 hours.

**DAN 364 Kinesiology for the Dancer.** 3(3-0) FO.

Prerequisite: PED 250. The specific study of dance techniques through the principles of motion, muscle action and joint mechanics.

**DAN 370 Music Resources for Dance I.** 2(1-2) F.

Development of musical skills for dance. Dance accompaniment techniques; study of musical elements related to dance. Practicum through experience with percussion and other instruments.

**DAN 371 Music Resources for Dance II.** 2(1-2) S.

Prerequisite: DAN 370. Further development of dance accompaniment techniques; survey of music literature for dance. Tape recording techniques and sound production for dance. Practicum through experience with tape recorders and instruments.

**DAN 390 Service Learning in Dance.** 1 S.

Prerequisite: 30 hours and concurrent registration in a DAN course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Dance to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**DAN 416 Modern Dance IV.** 2(0-4) D.

Prerequisite: permission of instructor. May be repeated to a total of 6 hours.

**DAN 420 Dance Composition III.** 2(0-4) F.

Prerequisite: DAN 321 and THE 150. Directed large group composition that will culminate with an end of semester performance. Students will explore aspects of staging a complete work that will include the creation of original theme, casting of performers, choices of accompaniment, and lighting and costume design.

**DAN 430 Ballet IV.** 2(0-4) D.

Prerequisite: permission of instructor. May be repeated to a total of 6 hours.

**DAN 445 Jazz Dance IV.** 2(0-4) D.

Prerequisite: permission of instructor. May be repeated to a total of 6 hours.

**DAN 451 History of Dance I.** 3(3-0) FO.

Prerequisite: 60 hours completed. Overview of the history of dance from the primitive era through the 16<sup>th</sup> century. The primary focus will be on the development of classical ballet.

**DAN 452 History of Dance II.** 3(3-0) SE.

Prerequisite: 60 hours completed. Overview of the history of dance from the 17<sup>th</sup> century to the present. The primary focus will be on the development of modern/contemporary dance.

**DAN 465 Dance Pedagogy.** 3(3-0) FE.

Prerequisite: 45 hours completed. Overview of general theories and philosophies of teaching and investigates class content and various methodologies used to teach dance techniques and creative movement in workshop settings. Emphasis is placed on methods for teaching the beginning level student.

**DAN 466 Dance Pedagogy II.** 3(3-0) SO.

Prerequisite: DAN 465. In-depth examination of effective teaching strategies for training dancers. Opportunities to develop and implement lessons appropriate to intermediate and advanced level dancers, to develop comprehensive training syllabi for dance in private studios and public schools.

**DAN 470 Dance Production.** 2(2-0) F.

Management of technical, business and artistic procedures involved in producing and staging all types of dance performances in their appropriate environments.

**DAN 490 Choreographers and Composers Workshop.** 1-4, D.

Collaboration of musicians and dancers in developing original accompaniment for contemporary dance choreography. Exploration of music; percussion and avant-garde techniques for accompaniment of ballet, modern and jazz dance. May be repeated for credit.

**DAN 492 Senior BFA Review.** 1(0-2) F,S.

Prerequisite: permission of department head. Public presentation of portfolio, project, or performance to demonstrate the student's mastery of the skills received during the major. Required of all BFA majors.

**DAN 496 (492) Readings.** 1-3, F,S.

Prerequisite: permission of department head. Individual, experimental or research studies in dance. May be repeated to a total of 6 hours.

**DAN 497 (412) Topics.** 1-3, F,S.

Prerequisite: permission of department head. Group creative or special topics in dance. May be repeated to a total of 6 hours.

**DAN 499 Projects.** 1-3, F,S.

Prerequisite: permission of department head. Supervised individual creative projects in dance. May be repeated to a total of 6 hours.

## Theatre Courses

**THE 101 Introduction to Theatre and Drama Arts.** 3(3-0) F,S.

The creative processes of transforming drama to stage, film and television. A study of the collaborations and contributions that the various artists make to the process. Intended to increase the audience's ability to think critically about the artistic experience. Buying tickets to and attendance at local productions required.

**THE 109 Performance Studies.** 3(3-0) F,S.

Exploration of the social, cultural, and aesthetic aspects of performance through an examination of self and society. Course combines lecture, readings, and individual student performances of oral and literary texts. Course enrollment is limited and much one-on-one work takes place.

**THE 121 Acting I.** 2(0-4) F,S.

Prerequisite: permission of instructor. Discovery and development of the actor's expressive behavior through improvisation.

**THE 123 Acting Fundamentals.** 3(2-2) F,S.

Stage techniques, basics of characterization and scene study. Buying tickets to and attendance at local performances required. May not be counted toward a BFA in Theatre/Performance or Musical Theatre.

**THE 125 Voice and Movement for the Stage.** 2(0-4) D.

Exercises in physical and vocal awareness for the actor. Introductory material on anatomy, breathing, and articulation; care and maintenance of body and voice.

**THE 126 Voice and Movement for the Stage I.** 2(0-4) F.

Prerequisite: must be currently enrolled in or have taken THE 121. Exercises in physical and vocal awareness for the actor. Introductory material on anatomy, breathing, and articulation; care and maintenance of body and voice.

**THE 130 (201) Introduction to Script Analysis.** 3(3-0) F, S.

Analysis of the script and its translation from page to performance through an examination of the relationships of directors, designers, performers, and audience in the rehearsal process and theatrical

performance. Buying tickets to and attendance at local productions required.

**THE 150 (202) Introduction to Theatre Technology.** 2(2-0) F,S. An introduction to the working relationships of designers and basic principles of costuming, lighting, and stagecraft. Buying tickets to and attendance at local productions required.

**THE 151 Introduction to Theatre Technology Lab.** 1(0-2) F,S. Prerequisite: THE 150 or concurrent registration. Practical application of the principles addressed in THE 150.

**THE 195 Theatre Laboratory.** 1(0-2) F,S.

Supervised practical work in the theatre including both on and off stage work. Requires 50 laboratory hours; 25 must be in technical areas. May be repeated to a total of 4 hours.

**THE 196 Actor Seminar.** 1(0-2) F,S.

Prerequisite: permission of instructor. Various topics with intensive laboratory experience in performance venues and techniques. Buying tickets to and attendance at local performances required. May be repeated for credit.

**THE 205 Speech for the Elementary Classroom.** 3(3-0) F,S. Speech activities in the elementary grades, correlating story telling, choral reading, creative dramatics and speech correction.

**THE 210 Writing II: Writing for Theatre.** 3(3-0) F.

Prerequisite: ENG 110 or equivalent and 30 hours or permission of department head. Study and practice of the discourse conventions of writing about dramatic literature and performance from the perspective of an educated generalist in the field. Students will hone skills of research, analysis, and argumentation in order to become more skillful theatre patrons, historians, and critics.

**THE 221 Acting II.** 2(0-4) S.

Prerequisite: THE 121 and permission of instructor. Emphasis on finding truth in performance through various acting techniques and physicalization of text. Application of play analysis to character study.

**THE 224 Stage Makeup I.** 1(0-2) F,S.

Laboratory course providing students with fundamentals of the art of two dimensional makeup.

**THE 226 (126) Voice and Movement for the Stage II.** 2(0-4) S. Prerequisite: THE 126 and permission of instructor. Development dynamic physical and vocal expression of text. Exercises in breaking habitual physical and vocal patterns which inhibit emotional expression. Exercises in ensemble movement techniques.

**THE 227 Movement for the Actor I.** 2(0-4) F.

Recommended: THE 221. Freeing the actor's body as well as work with space, time and energy.

**THE 228 Singing for the Actor I.** 1(0-2) F.

Prerequisite: permission of instructor; BFA Theatre/Performance majors only; not open to Musical Theatre majors; must take MUS 120 concurrently. Basic singing and music-reading techniques for actors, with approaches for building a singing repertoire.

**THE 229 Singing for the Actor II.** 1(0-2) F.

Prerequisite: THE 228 and permission of instructor; BFA Theatre/Performance majors only; not open to Musical Theatre majors; must take MUS 120 concurrently. Continuation of THE 228, with additional work on building an audition repertoire and on actor interpretation and expression through song.

**THE 250 Stagecraft and Construction I.** 2(2-0) F,S.

Prerequisite: THE 150. Working illustrations, construction, rigging, painting, and shifting of scenic units.

**THE 251 Stagecraft and Construction Lab.** 1(0-2) F,S.

Prerequisite: THE 250 or concurrent registration. Practical application of the principles addressed in THE 250.

**THE 255 Lighting Design I.** 2(2-0) F,S.

Prerequisite: THE 150. Introduction to lighting design with an emphasis upon practical application. Includes a study of electrical wiring, lighting instruments, color in light, and technical lighting crew work. Study of design includes script analysis, lighting plots, and support materials.

**THE 256 Lighting Lab.** 1(0-2) F,S.

Prerequisite: THE 255 or concurrent registration. Practical application of the principles addressed in THE 255.

**THE 260 Costume Construction I.** 2(2-0) F,S.

Prerequisite: THE 150. Fundamentals of costuming for the stage. A study of fabrics and construction; basic cutting and sewing techniques; costume shop organization and stage management.

**THE 261 Costume Construction Lab.** 1(0-2) F,S.

Prerequisite: THE 260 or concurrent registration. Practical application of the principles addressed in THE 260.

**THE 270 Drawing and Rendering for Theatre I.** 3(3-0) F.

A survey of drawing and the use of various media as applicable to theatrical design. Includes figure and perspective drawing techniques.

**THE 271 Drawing and Rendering for Theatre II.** 3(3-0) S.

Prerequisite: THE 270. A continuation of the study of drawing, including figure and perspective drawing techniques. The use of various color media as applicable to theatrical design.

**THE 275 Drafting for the Stage.** 3(2-2) F.

Prerequisite: THE 150. Basic drafting techniques and practices for theatrical applications. Study of tools, methods, and formulas used in generating designs and drawings.

**THE 280 Design Seminar.** 3(3-0) F,S.

Prerequisite: THE 150 and 270 or permission of instructor. Various topics with intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required.

**THE 281 Design Seminar.** 3(3-0) F,S.

Prerequisite: THE 150 and 270 or permission of instructor. Various topics with intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required.

**THE 292 BFA Review.** 1(0-2) F,S.

Prerequisite: permission of Area head. Public presentation of a portfolio, a project, or a performance demonstrating the student's mastery of the skills received during the major.

**THE 295 Production/Design Project.** 1(0-2) F,S.

Prerequisite: permission of Area head. Design and/or technical assignment connected with a specific departmental production.

**THE 296 Actor Seminar.** 1(0-2) F,S.

Prerequisite: permission of instructor. Various topics with intensive laboratory experience in performance venues and techniques. Buying tickets to and attendance at local performances required. May be repeated for credit.

**THE 306 Interrelated and Integrated Arts.** 3(1-4) D.

Prerequisite: ELE 302. Theory, methodology, and activities for teaching the arts to children, from early childhood through Grade 6. A creative experiential approach, emphasizing how the four primary art forms (drama, movement, music, and art) relate to and enhance one another and facilitate the child's learning in other content areas. Students who receive credit for this course will not receive credit for DAN 306, MUS 306, or ART 306.

**THE 310 (210) Performing Literature.** 3(3-0) F,S.

Individual and group performance of prose narrative and poetry. Designed for students who wish to develop skills in theatrical performance, oral interpretation, aesthetic communication, and literary study through performance.

**THE 321 Acting III.** 2(0-4) S.

Prerequisite: THE 221 and permission of instructor. Projects in advanced characterization.

**THE 322 (521) Acting IV.** 2(0-4) F,S.

Prerequisite: permission of instructor. Advanced techniques and tutorial scene work. Students are required to audition for departmental productions or to appear in a public performance. Buying tickets to and attendance at local productions required.

**THE 324 Stage Makeup II.** 1(0-2) S.

Prerequisite: THE 224. Laboratory course dealing with three-dimensional makeup. Emphasis on prosthetics of latex.

**THE 326 Advanced Voice for the Stage I.** 2(0-4) F.

Prerequisite: THE 226 and permission of instructor. Introduction to scansion and its application to performing classical material. Techniques for vocal stamina.

**THE 327 Advanced Movement for the Actor I.** 2(0-4) F.

Prerequisite: THE 226 and permission of instructor. Connections between characterization and physicalization in the actor's performance are explored. Designed for the student who wishes to develop bold, strong, and specific characterization-building skills.

**THE 328 Stage Combat.** 2(0-4) D.

Recommended: THE 227. An introduction to the techniques and terminology used in the performance of stage choreographed combat. Emphasis is placed on physical safety, proper vocalization, movement and weapon control.

**THE 329 Performing Comedy.** 2(0-4) F.

Prerequisite: THE 321 and permission of instructor. Exploring the structure of comedy through improvisation, comedic technique, and characterization.

**THE 350 Stagecraft and Construction II.** 3(2-2) D.

Prerequisite: THE 250. Study of advanced building techniques. Work with "non-conventional" materials. Explore uses of mechanical stage machinery. Plan and budget productions.

**THE 352 (450) Scene Design I.** 3(2-2) D.

Prerequisite: THE 270. Basic scene design procedures including floor plan patterns, front and rear elevations, perspective drawings and model building. Emphasis is placed on equipment needs, scenery analysis from the script, and creative research. Practical class application will be in the form of simple drawing and painting assignments and designs.

**THE 354 Stage Management.** 3(3-0) D.

Development of a production book and understanding of all procedures used by a stage manager from the selection of a script to the final production. The role of the stage manager is discussed for both the professional and the non-professional stage.

**THE 356 Theatre Technology for the Secondary School.** 3(3-0) F.

Survey of the technical production areas: scenery, lighting, costuming as applicable to the secondary school. Requires 60 hours of laboratory work. May not be counted toward a BFA degree.

**THE 365 Costume Design I.** 3(2-2) D.

Prerequisite: THE 270. An exploration of various methods of design development as related to costume design and the conveyance of character, mood, and meaning through clothing choices.

**THE 380 Design Seminar.** 3(3-0) F,S.

Prerequisite: THE 150 and 270 or permission of instructor. Various topics with intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required.

**THE 381 Design Seminar.** 3(3-0) F,S.

Prerequisite: THE 150 and 270 or permission of instructor. Various topics with intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required.

**THE 390 Service Learning in Theatre.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a THE course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Theatre to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**THE 392 BFA Review.** 1(0-2) F,S.

Prerequisite: permission of Area head. Public presentation of a portfolio, a project, or a performance demonstrating the student's mastery of the skills received during the major.

**THE 395 Production/Design Project.** 1(0-2) F,S.

Prerequisite: permission of Area head. Design and/or technical assignment connected with a specific departmental production.

**THE 396 Actor Seminar.** 1(0-2) F,S.

Prerequisite: permission of instructor. Various topics with intensive laboratory experience in performance venues and techniques. Buying tickets to and attendance at local performances required. May be repeated for credit.

**THE 411 Structures and Styles in Period Drama I: Shakespeare.** 2(0-4) F.

Prerequisite: THE 427 and permission of instructor. Understanding text, style, and dynamics of action in Shakespeare. Creating roles in Shakespeare's plays.

**THE 412 (512) Structures and Styles in Period Drama II.** 2(0-4) S.

Prerequisite: THE 411 and permission of instructor. Study and exploration of dramatic modes in period and stylistic material. Monologue and scenework exploring Greek, Restoration, Romantic, and other non-traditional styles.

**THE 417 (SEC) Teaching of Speech and Theatre.** 3(3-0) F. (Identical with COM 417)

Prerequisite: EDC 350, SPE 340, IMT 365, 12 hours in communication and 12 hours in theatre, and admitted to teacher education program. Scope and objectives of the speech and theatre program in secondary schools; organization and administration of curricular and co-curricular programs; general instruction methodology. Completion of Check-point II for the Professional Portfolio is a component of this course. This course is recommended to be completed the fall semester before student teaching. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take THE 490 or THE 491. May not be taken Pass/Not Pass. Cannot receive credit for both COM 417 and THE 417.

**THE 421 (322) Acting IV.** 2(0-4) S.

Prerequisite: THE 321 and permission of instructor. Advanced techniques and tutorial scene work.

**THE 424 Phonetics and Dialects.** 2(1-2) SO.

Prerequisite: THE 321. Instructional and laboratory application of international phonetic alphabet as applied to stage dialects and accents.

**THE 426 Advanced Voice for the Stage II.** 2(0-4) F,S.

Prerequisite: THE 326 and permission of instructor. Working with the voice in characterization using contemporary, classical, and experimental materials. Working with rhythm, inflection, and dialect as the material demands.

**THE 427 Advanced Movement for the Actor II.** 2(0-4) S.

Prerequisite: THE 327 and permission of instructor. Specialized exercises and individualized work in performing non-realism. Explores ways of performing absurdism, expressionism, symbolism, and other avant-garde styles.

**THE 430 Directing I.** 3(2-2) F.

Prerequisite: THE 130 and THE 150 and; either THE 121 or THE 123. Basic principles, skills and techniques underlying directing. Procedures in selecting, analyzing, casting and producing a play.

**THE 451 (523) Auditions I.** 2(0-4) F.

Prerequisite: THE 321 and permission of instructor. Audition techniques for performers; choice and preparation of audition materials, as well as construction of a resume, obtaining a useable photograph, information on agents, casting directors, casting notices, unions, and the development of a reliable network.

**THE 452 Auditioning II.** 2(0-4) S.

Prerequisite: THE 451 and permission of instructor. Continuation of THE 451. The textual emphasis is on the addition of classical material to the actor's audition repertory. Lecture and discussion continues in the areas of professional protocol and behavior, and the pursuit of employment. Focus is given to the creation of a career plan.

**THE 454 Scene Painting.** 3(2-2) D.

Prerequisite: THE 270. Study of painting equipment tools, brushes, pigments, binders, and vehicles and their relationship to the surfaces to be painted. Instruction in basic painting techniques and texturing for the stage.

**THE 460 Costume Construction II.** 3(3-0) D.

Prerequisite: THE 260. Costume construction techniques with emphasis on patterning, draping, tailoring, and more specialized sewing and fabric manipulation processes. Requires 45 hours of laboratory work.

**THE 490 Supervised Teaching (Theatre-Secondary Education).** 6, F,S.

Prerequisite: completion of all methods courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. This course will not count toward the major GPA. Students will not receive credit for both SEC 493 and THE 490, nor will students receive credit for both THE 490 and COM 490.

**THE 491 Supervised Teaching (Theatre-Secondary Education).** 6, F,S.

Prerequisite: completion of all methods courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. This course will not count toward the major GPA. Students will not receive credit for both SEC 494 and THE 491, nor will students receive credit for both THE 491 and COM 491.

**THE 492 Senior BFA Project.** 1(0-2) F,S.

Prerequisite: permission of Area head. Public presentation of portfolio, project, or performance to demonstrate the student's mastery of the skills received during the major. Required of all BFA majors.

**THE 493 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate Praxis II exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**THE 495 Theatre Management Practicum.** 1(0-2) F,S.

An administrative, instructional, or supervisory experience not available through class work. Student typically serves as a production aide to a faculty member, or assumes a faculty supervised leadership role. May be repeated to a total of 4 hours.

**THE 496 Readings.** 1(0-2) F,S.

Prerequisite: permission of department head. Individual, experimental or research studies in theatre and performance studies. May be repeated to a total of 9 hours.

**THE 497 Topics.** 1-3, F,S.

Prerequisite: permission of department head. Group creative or special topics in theatre and performance studies. May be repeated to a total of 6 hours.

**THE 499 (494) Projects.** 1-3, F,S.

Prerequisite: permission of department head. Supervised individual creative projects in theatre and performance studies. May be repeated to a total of 6 hours.

**THE 505 Theatre for Children and Youth.** 3(3-0) F.

Special training and techniques involved in the preparation and development of productions for, and by, children and youth. Activities include directing, scenic and costume design, scripting, and a study of the history, literature and research of the field.

**THE 506 Creative Dramatics.** 3(3-0) S.

The art of creative drama and how it can be used in the school and community with children, youth, adults, and "special populations." Students teach their own classes in creative drama during the latter part of the semester.

**THE 510 Scripting and Performing.** 3(3-0) S.

Prerequisite: THE 310. Theoretical and practical knowledge in developing performance skills for one-person shows, extended literary performances, performance art, stand-up comedy, personal narrative and other performer-composed theatrical texts.

**THE 515 Theatre for Social Change.** 3(3-0) S.

Prerequisite: THE 310. Theoretical and practical knowledge for developing performances for, about, and in partnership with community-based nonprofit organizations. Includes volunteer assignment and techniques for journaling, interviewing, scripting, and directing original material.

**THE 522 Acting for the Camera.** 3(1-2) D.

Prerequisite: permission of instructor. Character preparation and control techniques; physical and vocal training; relationship of performer to the aesthetic space, and technological demands of the camera.

**THE 530 Directing II.** 3(2-2) S.

Prerequisite: THE 430. Advanced directing techniques. Directing of a one-act play.

**THE 541 Theatre History I.** 3(3-0) F.

This course traces the important periods in the development of theatre from its beginning through the English Restoration, including an analysis of period plays illustrating the use of dramatic literature of those time periods.

**THE 542 Theatre History II.** 3(3-0) S.

This course traces the important periods in the development of theatre from the 18<sup>th</sup> century through present day, including an analysis of period plays illustrating the use of dramatic literature of those time periods.

**THE 543 Development of Modern Theatre.** 3(3-0) F.

Theatre theorists, practitioners and drama from development of naturalism to Theatre of the Absurd.

**THE 545 Contemporary Theatre.** 3(3-0) D.

Theatre theorists, practitioners and drama since 1960. Emphasis will be on theatre as art form and social and cultural institution.

**THE 547 Development of American Theatre.** 3(3-0) D.

Theatre in the United States from colonial times to the present; place of theatre in American culture; native forms, characters and non-literary theatre.

**THE 552 Scene Design II.** 3(2-2) D.

Prerequisite: THE 352. Advanced designs of selected plays including floor plans, front elevations, white and finished models and renderings.

**THE 555 Lighting Design II.** 3(2-2) D.

Prerequisite: THE 255. Advanced principles and techniques of lighting for theatre, dance, and other performance/presentational events.

**THE 558 Sound Design for the Stage.** 3(2-2) D.

Principles of sound design with an emphasis on practical application. Includes a study and practice of basic audio production, recording, editing, mixing, reinforcement, and playback techniques used in association with dramatic events. Study of sound design includes aesthetic, dramatic, and practical considerations of script analysis, creative collaboration, research, and problem solving. Practical class application will be in the form of simple projects, exercises, and designs.



**THE 561 History of Costume and Decor I.** 3(3-0) F.

Prerequisite: THE 270. A survey of styles of dress, interior design and decoration, architecture, art, and historical events as they pertain to the design of theatrical productions, from ancient Egypt to circa 1700. Requires sketching.

**THE 562 History of Costume and Decor II.** 3(3-0) S.

Recommended: THE 270. Survey of styles of dress, interior design and decoration, architecture, and art as they pertain to the design of theatrical productions, from circa 1700 to the present day. Requires sketching.

**THE 565 Costume Design II.** 3(2-2) D.

Prerequisite: THE 365. Emphasis on special problems in costume design including applications of concepts to design projects and presentation of completed design projects.

**THE 581 Musical Theatre History I.** 3(2-2) F.

Development of musical theatre in England, continental Europe and America from *The Beggar's Opera*, 1728 to *Show Boat*, 1927.

**THE 582 Musical Theatre History II.** 3(2-2) F.

Development of musical theatre mainly in America from *Show Boat*, 1927 to the present.

**THE 595 Theatre Practicum.** 1-6(2-12) D.

Prerequisite: permission of department head. Acting, stagecraft, costuming and associated work in the Tent Theatre or other specified theatre production.

*The following courses are open only to graduate students.*

**THE 600 Introduction to Graduate Study in Theatre & Interpretation.** 3(3-0) F.

Bibliography and methods of research and reporting research.

**THE 607 Theatre Pedagogy: Theories and Practices.** 3(3-0) S.

Designed to acquaint theatre teachers with the field of current theories and practices of theatre and performance pedagogy, and to develop instructional skills with specific application to teaching introductory level theatre courses.

**THE 610 Seminar: Performance.** 3(3-0) D.

Studies in rhetorical, cultural, social and aesthetic dimensions of performance.

**THE 612 Oral Performance of Literature.** 1-2, D.

In conjunction with study of literature in the English Department, the student will present oral performances of the literature studied. The readings may consist of several short programs or one full length program 45 to 60 minutes in length. With permission, may be repeated to a total of 4 hours.

**THE 636 Theatre Management.** 3(3-0).

Organization and administration for educational, professional and community theatre.

**THE 642 Dramatic Theory and Criticism.** 3(3-0).

Representative theories of dramatic form and function; works of major critics and philosophers from Aristotle to present.

**THE 644 Comic Theory and Techniques.** 3(3-0) D.

A study of the various forms of comedy and the techniques for performance of comic literature.

**THE 690 Workshop in Theatre.** 3-9, S.

Designed to improve the students' skill and knowledge in specific areas of theatrical production. Each workshop will be concerned with a single topic, either acting, directing, or design. The course will examine the intersections between theory and practice in the creation of theatrical works. May be repeated to a maximum of 9 hours credit.

**THE 693 Degree Paper.** 3, F,S,Su.

Research and writing of an extended paper originating in one of the 600-level courses. The degree paper may or may not relate to the applied research project. Students may choose to present the completed paper for their required research report.

**THE 695 Applied Research Project.** 3, F,S,Su.

Prerequisite: permission of research advisor and, if applicable, host institution, must be obtained the semester prior to enrollment. The applied research project may consist of: 1) a creative project (directing, designing, scripting, performing), or 2) an internship with a host company or agency. For the non-thesis project, students must design specific educational and social as well as artistic objectives and appropriate assessment measures in consultation with the advisor. Students may choose to report on the applied research project for their required research report. Graded Pass/Not Pass only.

**THE 696 (692) Readings.** 1-3, F,S.

Prerequisite: permission of department head. Individual, experimental or research studies in theatre and performance studies. May be repeated to total of 6 hours.

**THE 697 Topics.** 1-3, F,S.

Prerequisite: permission of department head. Creative or special topics in theatre and performance studies. May be repeated to total of 6 hours.

**THE 698 Thesis Research.** 3, F,S,Su.

Research leading to a Master's thesis. Students will present a proseminar on their research during the semester they are enrolled in this course.

**THE 699 Thesis Writing.** 3, F,S,Su.

Preparation of thesis. May be repeated, but no more than 3 hours may be counted toward a master's degree. Graded Pass/Not Pass only.

## College of Business Administration

400 Glass Hall, Phone: 836-5646, FAX: 836-4407  
 Email: [CollegeofBusinessAdministration@missouristate.edu](mailto:CollegeofBusinessAdministration@missouristate.edu)



David D. Glass Hall in foreground. Strong Hall in background.

**Dean: Professor Ronald R. Bottin, Ph.D.**

**Associate Dean: Professor D. Michael Fields, Ph.D.**

The College of Business Administration includes:

### School of Accountancy

**Director:** Associate Professor Phillip D. Harsha, C.I.A., Ph.D.  
 439 Glass Hall, Phone 836-5414

### Department of Computer Information Systems

**Department Head:** Associate Professor Jerry M. Chin, D.B.A.  
 359 Glass Hall, Phone 836-4131

### Department of Finance and General Business

**Department Head:** Professor George S. Swales, Jr., Ph.D.  
 300 Glass Hall, Phone 836-5504

### Department of Industrial Management

**Department Head:** Associate Professor Shawn D. Strong, Ph.D.  
 200 Glass Hall, Phone 836-5121

### Department of Management

**Department Head:** Professor Barry L. Wisdom, Ph.D.  
 414 Glass Hall, Phone 836-5415

### Department of Marketing

**Department Head:** Professor Robert H. Luke, Ph.D.  
 238 Glass Hall, Phone: 836-5413

## College of Business Administration

### Disciplines Within the Business Unit

School of Accountancy

Department of Computer Information Systems

Department of Finance and General Business

Department of Management

Department of Marketing

The business unit is fully accredited by AACSB-International, The Association to Advance Collegiate Schools of Business.



### Disciplines Outside the Business Unit

Department of Industrial Management

The Department of Industrial Management is accredited by the National Association of Industrial Technology (NAIT).



## College of Business Administration Vision, Mission and Value Statements

### Vision

The College of Business Administration at Missouri State University seeks to be recognized as one of the leading Colleges of Business in the state of Missouri and in the United States.

### Mission

The College of Business Administration is committed to effectively developing educated persons in business disciplines with a broad understanding of public affairs, by providing students with knowledge, skills and values to succeed and adapt in a global economy, by encouraging faculty to engage in intellectual contributions and convey the results to the wider academic and business community, and by building effective partnerships with global institutions, industry, the public and our colleagues.

### Shared Values and Guiding Principles

- **We value ethical behavior.** We believe in consistently practicing honesty and professional ethics in all aspects of the work we do. We believe it is extremely important to promote ethical behavior in our students, faculty, administrators and staff.
- **We value our students.** We believe in providing a high quality educational environment that facilitates learning through students' interactions with faculty, staff and administrators. We believe it is important to instill a commitment to lifelong learning in our students.
- **We value our faculty, staff and administrators.** We believe in nurturing and supporting a collegial environment for faculty, staff and administrators that is supportive of our individual and collective educational efforts. While we recognize, support and applaud differing viewpoints, we strive to maintain a decision-making process that considers alternative views before decisions are made.
- **We value our research endeavors.** We believe our scholarship should be directed at discovery of new ideas and applying knowledge to support improvement in business.
- **We value our community and our region.** We believe in developing programs that support our community and region. As the largest college of business administration in the region and as a state-supported institution, we strive to provide organizations with serious, well-prepared students and to make available various support functions to help businesses to be more successful in their dynamic environments.
- **We value continuous improvement.** We believe in individual and collective efforts that support the College mission; we will strive for continuous improvement. By committing to continuous improvement over time, we will take areas that need attention and ultimately make them strengths, and take existing strengths and further increase the College's points of differential advantage.

## Center for Business and Economic Development

The Center is the outreach arm of the College of Business Administration, and as such, its activities are primarily aimed at helping public and private sector entities to improve their management abilities and to help create and retrain job opportunities for American workers. The efforts of the Center are primarily handled through the following units:

- 1) The **Small Business Development Center** provides general management and technical assistance to smaller enterprises in SW Missouri. It also has a state-wide mission in the areas of innovation and international business. Counseling is offered in strategic planning, market research, cash flow analysis, procurement, exporting and a variety of other areas.

- 2) The **Management Development Institute** provides a broad base of non-credit programs and seminars in such areas as total quality management, supervision, human resource management, strategic planning and customer satisfaction. Professional certification programs and special in-house training programs are also provided for both public and private sector organizations.

- 3) The **Center for Industrial Productivity** is dedicated to assisting business and industry in research, development of new manufacturing technologies, and training of professionals involved in manufacturing. The primary objective of the Center is to support area business and industry in their pursuit of manufacturing excellence in their management practices, application of new technologies, and efforts to remain competitive in the global market place.

### Graduate Programs

A Master of Business Administration degree is administered by the College of Business Administration. Additional graduate programs are offered through the academic departments/school in the College of Business Administration. See the department sections of this catalog and the Graduate Catalog for details.

### Accelerated Master of Business Administration degree

Eligible undergraduate students majoring in the College of Business Administration may apply for preliminary acceptance into the Master of Business Administration degree program during the second semester of their junior year after admission requirements for the accelerated masters program have been satisfied. If approved, up to six hours of 500-level or 600-level COBA courses taken in the senior year may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the MBA program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## ADMISSION AND PROGRAM REQUIREMENTS

Applicable to all majors within the business units of the College of Business Administration  
(majors in the Department of Industrial Management are excluded from these requirements)

Contact the Business Advisement Center, 106 Glass Hall, 836-5386, BusinessAdvisement@missouristate.edu for information

### Admission Requirements

(Not applicable to Industrial Management Majors)

All students who plan to apply for admission to the College of Business Administration should declare a major in one of the five departments within the business unit of the College upon admission to the University and seek enrollment advice through the Business Advisement Center.

Students in good standing are eligible to be considered for admission to a specific degree program in the College of Business Administration upon the completion of at least 54 hours including at least ten of the following preparation courses. Up to two of the twelve courses listed may be completed during the semester of admission; however, students should make every effort to complete all of the preparation courses prior to admission.

Students majoring in Computer Information Systems are required to meet additional admission requirements. See the Department of Computer Information Systems section of catalog for details.

COURSE	HOURS
ACC 201 and 211, or 206 Accounting .....	4-6
CIS 101* or CSC 101* Computers for Learning .....	0-2
COM 115 Public Speaking .....	3
ECO 155 and 165 Principles of Economics .....	6
ENG 110* Writing I .....	0-3
MGT 286 Business Communications .....	3
MTH 135 or Higher** Mathematics .....	3-5
PSY 121 Psychology.....	3
QBA 237 Business Statistics.....	3
RIL 231 Legal Environment of Bus .....	3

\*May be waived by proficiency exam

\*\*Excluding MTH 145 (renumbered to MTH 130)

Admission to the College of Business Administration is limited to a total of 2,000 majors at the combined junior and senior levels. Admission decisions will be determined by applicants' combined (Missouri State plus transfer) grade point average. However, all applicants whose combined grade point average is 2.50 or higher will be admitted to the College of Business Administration. Factors in addition to grade point average may be considered in unusual cases, but exceptions to the prevailing minimum grade point average will be limited to five percent of the 2,000 majors at the combined junior and senior levels.

### Special Procedural Information

After completing 30 semester hours, students may be eligible to prepare a tentative degree program. The preparation of the tentative degree program establishes the courses required for admission and graduation requirements which must eventually be met. The degree program is not finalized, however, until students have gained admission to the College of Business Administration. Contact the COBA Advisement Center regarding preparation of a tentative degree program.

Because admission to the College of Business Administration will be limited, students must apply by the following deadlines to ensure admission for the appropriate semester and to avoid registration problems:

Summer/Fall - 6th week of Spring Semester

Fall\* - 4th week of Summer Semester

Spring - 6th week of Fall Semester

\*for students who did not apply in the Spring

Admission decisions will be made by the 8th week of the Spring and Fall Semesters and the 6th week of the Summer Semester. Students must gain admission to the College by that semester in which they have earned a total of 60 semester hours of college credit (including transfer credit).

Students who do not gain admission as expected are subject to being dropped as business majors and will not be permitted to register for the following semester without special permission. Students should contact the College of Business Administration Advisement Center regarding the granting of special permission to register. Business (and undeclared) majors cannot be enrolled in upper-division business courses until their degree program has been finalized. Business (and undeclared) majors who have enrolled in upper-division business courses without having met all admission requirements (or without having met all of the specific course prerequisites) will be dropped from those courses.

### Program Requirements

(Not applicable to majors in the Department of Industrial Management)

In addition to the general education and general baccalaureate degree requirements, all Bachelor of Science and Bachelor of Science in Education degree candidates in the College of Business Administration must meet the following requirements for graduation.

#### 1. Grade Point Average:

All business majors must have a 2.50 or higher grade point average at the time of graduation for all upper-division College of Business Administration courses attempted at Missouri State University.

#### 2. COBA Core Requirements:

ACC 201 and 211, or 206 .....	4-6
CIS 201 .....	2
ECO 155* and 165 .....	6
FGB 380 .....	3
MGT 286, 340, 364, and 487 .....	12
MKT 350 .....	3
PSY 121* .....	3
QBA 237 .....	3
RIL 231 and 332 .....	4

ACC 341 for Accounting majors,

CIS 461 for Computer Information Systems majors,  
or CIS 429 for all other majors

\*May also be used toward general education requirements.

#### 3. Globalization Requirements:

All business majors are required to complete six hours of Globalization Requirements. The College of Business Administration strongly encourages students to complete six hours from one foreign language to complete the Globalization Requirement.

Foreign Language Courses: CHI, FRN, GRK, GRM, HBW, ITL, JPN, LTN, PTG, RUS, SPN

Foreign Culture Courses: ANT 100, 226, 320, 330, 335; ECO 346, 565; ENG 341, 361; GRY 100, 308, 320, 321, 323; HST 200, 340, 350, 355, 381, 556, 559, 561; LLT 215, 225, 321, 325, 326; MCL 303; MUS 239\*; PLS 205, 232, 339, 343, 345, 348, 544, 545; REL 210\*, 330, 350; SOC 150

\* May also be used toward general education requirements.

Approved International Study Courses

Business Courses: only one of the following may count toward the globalization requirement - ACC 505, FGB 584, MGT 447, MKT 574, RIL 539

#### 4. Recommendation for Course Work Outside COBA:

It is recommended that all business majors complete at least 50% of the hours required for graduation outside the College of Business Administration. For purposes of this recommendation, the following courses may be counted as hours outside of COBA: CIS 101, QBA 237 and 337, and all courses offered in the Department of Industrial Management.

**5. Other Requirements:**

A minimum of 12 credit hours not counted as requirements on any other major or minor, and exclusive of “problems” and “readings” courses, is required for the completion of any additional major in business. A minimum of 9 credit hours not counted as requirements on any major or other minor, and exclusive of “problems” and “readings” courses, is required for the completion of any minor in business.

**Transfer Credit**

**Validation Requirements:** Students who plan to begin work at a community college or another four-year institution and later transfer to Missouri State should take only those lower-division courses in business numbered 1 through 299. Upper-division courses taught in the junior and senior years at Missouri State are numbered 300 or higher and should not be completed at a two-year college for transfer credit in the business core or major program area of specialization at Missouri State. If similar courses are taken at the lower-division level at a community college or a four-year institution, validation through additional course work or testing will be required. Validation by exam must be completed within the semester of admission. Validation by additional course work must be requested in the Business Advisement Center the semester of transfer and must be completed within one year. **Courses taken at any level must be approved by the appropriate department as equivalent to an upper-division course in the College of Business Administration.**

**Residence Requirement:** At least 50 percent of the College of Business Administration credit hours required for a business degree must be earned from the Missouri State University Springfield campus.

**Sequencing of Courses**

The College of Business Administration has established an appropriate sequencing of courses in addition to specified course prerequisites. Additional information about course prerequisites and sequencing of classes is available in the COBA Advisement Center, Glass Hall, room 106. The sequencing of courses and course prerequisites are enforced by computerized prerequisite checks.

**High School Preparation**

Students entering the College of Business Administration are expected to have computer keyboarding skills and an understanding of the accounting cycle. These skills may be acquired by taking keyboarding/typewriting and accounting. Students who enter the College of Business Administration with an understanding of computer concepts, knowledge of common software used, and BASIC programming skills may waive CIS 101 by a proficiency examination.

**Enrollment by Non-Business Students**

Students seeking degrees outside the College of Business Administration, including Industrial Management Majors, cannot exceed 31 hours of business courses (25% of the 125 hours required for graduation) unless all admission requirements to the College of Business Administration have been met. All exceptions must have the written approval of the Dean of the College of Business Administration. Students found to be in violation of this policy will be dropped from all courses exceeding the maximum number of business course hours.

## School of Accountancy

439 Glass Hall, Phone: 836-5414, FAX: 836-5164

Email: [Accountancy@missouristate.edu](mailto:Accountancy@missouristate.edu)

**Director:** Associate Professor John R. Williams, Sr., C.P.A., Ph.D

**Professors:** Ronald R. Bottin, Ph.D.; Radie G. Bunn, M.S. Tax, J.D.; David B. Byrd, C.P.A., Ph.D.; Sandra D. Byrd, C.P.A., Ph.D.; M. Virginia Cerullo, C.P.A., C.I.A., C.F.E., Ph.D.; Michael J. Cerullo, C.P.A., C.F.E., Ph.D.; Sidney R. Ewer, C.I.A., C.M.A., C.P.A., Ph.D.; Olen L. Greer, C.M.A., Ph.D.; R. Stephen McDuffie, C.P.A., D.B.A.; Steven K. Olson, C.P.A., C.F.E., Ph.D.

**Associate Professors:** Kurt E. Chaloupecky, C.P.A., Ph.D.; Phillip D. Harsha, C.I.A., Ph.D.; Geanie W. Margavio, C.P.A., Ph.D.; Debra H. Oden, C.P.A., J.D., LLM Tax.

**Assistant Professors:** A. Craig Keller, Ph.D.; Terry L. Loveland, C.P.A., M.A.

**Emeritus Professors:** Wilbur Bridges, C.G.F.M., M.B.A.; Kenneth W. Brown, C.P.A., C.G.F.M., Ph.D.; Jean R. Collins, M.B.A.; John H. Domy, M.Ed.; Jon R. Nance, C.M.A.; C.P.A., Ph.D.; Richard L. Nichols, C.G.F.M., Ph.D.; India Philley, M.B.A.; Keith B. Scott, C.P.A., Ph.D.; Sarah L. Thompson, M.T.

**Accreditation:** AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### School of Accountancy Mission

The School of Accountancy is committed to being a center of excellence in the field of accounting education and to fulfilling a role as one of the key collegiate departments within the College of Business Administration. As such, the School has as its main objective the preparation of students for successful careers in public accounting, private accounting or governmental accounting as well as for entry into graduate programs in accounting.

### Advisement Information

With careful selection of elective courses, students can customize their degree to target specific interests, entry-level job markets, or professional certification examinations (see below). Students should consult with their advisor (and other faculty) concerning this opportunity.

### Credit by Examination

A departmental examination to obtain academic credit is available for ACC 201.

## Major

### Accounting (Comprehensive)

#### Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. COBA Admission and Program Requirements - see "College of Business Administration/Admission and Program Requirements" section of catalog
- C. Major Requirements
  1. ACC 301(3), 302(3), 311(3), 321(3), 341(3)
  2. Complete 4 courses (one must be ACC 550 or 555) from: ACC 504(3), 505(3), 511(3), 521(3), 531(3), 550(3), 555(3), 556(3).

Note: All accounting majors are required to complete at least 90 semester hours of required course work outside of accounting courses.
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Minors

### Accounting

#### Bachelor of Applied Science

#### Bachelor of Arts

#### Bachelor of Science

- A. ACC 201(3), 211(3)\*
- B. Complete nine additional hours of accounting from ACC 301, 302, 311, 321, 341, 421, 422, 504, 505, 511, 521, 531, 550, 555, and 556

\*ACC 206 may be substituted for ACC 201 and 211.

## University Certificate – Undergraduate

### Internal Auditing

The Internal Auditing undergraduate certificate program provides a 12 hour undergraduate level experience in the internal auditing field. Internal auditing is an independent, objective assurance and consulting activity designed to add value and improve an organization's operations. It helps an organization accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control, and governance processes. The program has gained the endorsement of the Institute of Internal Auditors (IIA). Contact the Director of the School of Accountancy for additional information.

**Entrance Criteria:** Student must be admitted to a COBA degree program or have courses approved by the Director of the School of Accountancy.

**Requirements:** (a "C" grade or better in each course is required)

- A. ACC 555(3), 556(3)
  - B. ACC 341(3) or CIS 429(3)
  - C. Complete 3 hours from: ACC 311(3), 494(5)\*, 496(1-2)\*; FGB 380(3); MGT 340(3), 364(3); MKT 350(3)
- \* if internal auditing related

## Graduate Programs

A Master of Accountancy degree is offered. See the Graduate Catalog for details.

### Accelerated Master of Accountancy degree

Eligible undergraduate students majoring in accounting may apply for preliminary acceptance into the Master of Accountancy degree program as early as the second semester of the junior year. If approved, up to six hours of 500-level accounting courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This program allows accounting majors to obtain the Master of Accountancy degree in five years with a total of 152 semester hours rather than the normal 158 semester hours. See the Graduate Catalog or contact the School of Accountancy for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Accelerated Master of Business Administration degree

Eligible undergraduate students majoring in the College of Business Administration may apply for preliminary acceptance into the Master of Business Administration degree program during the second semester of their junior year after admission requirements for the accelerated masters program have been satisfied. If approved, up to six hours of 500-level or 600-level COBA courses taken in the senior year may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the MBA program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Professional Certification

Nationally recognized professional accounting certifications include Certified Public Accountant (CPA), Certified Management Accountant (CMA), Certified Internal Auditor (CIA), Certified Government Financial Manager (CGFM), and Certified Fraud Examiner (CFE). The School of Accountancy encourages its majors to consider earning one or more of these certifications.

The State of Missouri requires those who apply to sit for the CPA examination to have at least 150 semester hours of college credit. Furthermore, the American Institute of Certified Public Accountants (AICPA) requires at least 150 semester hours of college credit for membership. The accounting faculty highly recommends that the Master of Accountancy program be used to acquire the 150 hours required for CPAs as well as for those desiring other professional certifications.

## Accounting Courses

### ACC 109 The Accounting Cycle. 1(1-0) D.

Introduction to the basic accounting concepts related to the processing of transactions and preparation of an income statement and balance sheet. A student who has received credit for ACC 201 at the time of enrollment in ACC 109 will not receive credit for ACC 109.

### ACC 121 Individual Tax Return Preparation. 1(1-0) D.

Principles of income tax with emphasis on the preparation of returns for individual taxpayers. Attention will be given to the proper reporting of income and deduction items.

### ACC 201 Introduction to Financial Accounting. 3(3-0) F,S.

Prerequisite: 24 credit hours and a math course numbered 135 or higher. Methods and procedures employed in financial accounting with emphasis on development and interpretation of financial statements. Credit by examination is available. A grade of "C" or better is required in this course in order to take ACC 321 or 531.

### ACC 206 ACC Choices and Methods. 4(4-0) F,S.

Prerequisite: UHC 110. Comprehensive and accelerated examination of alternative accounting models, including electronic spreadsheet models, and their uses. Replaces ACC 201 and 211 for Honors Students. A grade of "C" or better is required in this course in order to take ACC 301, 311 or 321. May not be taken Pass/Not Pass.

**ACC 209 Accounting Applications for Microcomputers.** 1(1-0) D. Prerequisite: ACC 211 or concurrent enrollment in ACC 211. Use of the microcomputer and electronic spreadsheets to master the basic accounting cycle.

### ACC 211 (202) Introduction to Managerial Accounting. 3(3-0) F,S.

Prerequisite: ACC 201. Methods and procedures employed in managerial accounting with emphasis on the use of accounting data for decision making. A grade of "C" or better is required in this course in order to take ACC 301 or 311. May not be taken Pass/Not Pass.

### ACC 297 Topics in Accounting. 1-3, D.

A variable content course with topics that can change from semester to semester. Topics are identified by title in the schedule of classes.

### ACC 301 (244) Intermediate Accounting I. 3(3-0) F,S.

Prerequisite: grade of "C" or better in one of ACC 211 or ACC 206 or ACC 500; and undergraduate business majors must be admitted to COBA. Financial Accounting Theory applications to the accounting process of corporations. Review of financial statements; accounting for current and long-term assets. A grade of "C" or better is required in this course in order to take ACC 302, 341, 504 or 505. May not be taken Pass/Not Pass.

### ACC 302 (245) Intermediate Accounting II. 3(3-0) F,S.

Prerequisite: grade of "C" or better in ACC 301; and undergraduate business majors must be admitted to COBA. Continuation of intermediate accounting. Accounting for liabilities and equity. A grade of "C" or better is required in this course in order to take ACC 550. May not be taken Pass/Not Pass.

### ACC 311 (241) Managerial Cost Accounting. 3(3-0) F,S.

Prerequisite: grade of "C" or better in one of ACC 211 or ACC 206 or ACC 500; and undergraduate business majors must be admitted to COBA.

Function of cost accounting; means and methods of its applications in specific accounting situations. A grade of "C" or better is required in this course in order to take ACC 511.

### ACC 321 (443) Tax Accounting I. 3(3-0) F,S.

Prerequisite: grade of "C" or better in one of ACC 201 or ACC 206 or ACC 500; and undergraduate business majors must be admitted to COBA. Principles of income tax accounting; current laws and income tax problems of individuals. A grade of "C" or better is required in this course in order to take ACC 421 or 521. May not be taken Pass/Not Pass.

### ACC 341 Accounting and Management Information Systems. 3(3-0) F,S.

Prerequisite: grade of "C" or better in ACC 301; and undergraduate business majors must be admitted to COBA. Accounting system examined as a crucial base for the desired comprehensive management information system of an organization. Impact of the computer on accounting systems controls and the auditing of EDP based accounting systems. A grade of "C" or better is required in this course in order to take ACC 550. May not be taken Pass/Not Pass.

### ACC 394 (399) Cooperative Education in Accounting. 1-3, D.

Prerequisite: permission of the School of Accountancy Director; and undergraduate business majors must be admitted to COBA. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. This is a variable content course that may be repeated to a total of 6 semester hours in Cooperative Education.

### ACC 397 (300) Topics in Accounting. 1-3, D.

Prerequisite: undergraduate business majors must be admitted to COBA. A variable content course with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. Examples are: inflation accounting, management advisory services, public utility accounting, financial reporting to regulatory agencies. May be repeated to a total of 6 hours.

### ACC 421 Volunteer Income Tax Assistance (VITA). 1(0-2) S.

Prerequisite: grade of "C" or better in ACC 321; and undergraduate business majors must be admitted to COBA. Field work in the preparation of individual income tax return (state and federal) covering topics of gross income, deductions and credits.

### ACC 422 Advanced Volunteer Income Tax Assistance (VITA). 1(0-2) S.

Prerequisite: undergraduate business majors must be admitted to COBA. Experience in the planning and scheduling of the VITA program and provides final review of actual income tax returns prepared under field conditions.

### ACC 494 (499) Internship in Accounting. 5(0-10) D.

Prerequisite: 20 credit hours of accounting courses and permission of the School of Accountancy Director; and undergraduate business majors must be admitted to COBA. Internship experience in an organization emphasizing public, managerial or not-for-profit accounting.

### ACC 496 (408) Readings in Business Administration—Accounting. 1-2, D.

Prerequisite: permission of the School of Accountancy Director; and undergraduate business majors must be admitted to COBA. Planned readings designed to intensify and supplement the area of accounting.

### ACC 500 (600) Financial Accounting Concepts for Managers. 3(3-0) F,S.

Prerequisite: permission of a director of COBA graduate program or the director of the MS in Administrative Studies program. Comprehensive study of the fundamentals of financial accounting. Designed for graduate students who have not had an undergraduate course in financial accounting. Will not be counted in the hours required for a COBA undergraduate or graduate degree.

### ACC 504 (404) Advanced Accounting. 3(3-0) F,S.

Prerequisite: grade of "C" or better in ACC 301; and undergraduate business majors must be admitted to COBA. Study of accounting for pensions, deferred taxes, business combinations, partnerships, and certain multicurrency accounting issues.

### ACC 505 International Accounting. 3(3-0) F,S.

Prerequisite: grade of "C" or better in ACC 301; and undergraduate business majors must be admitted to COBA. Accounting practices in different nations; multi-national corporation and selected accounting problems.

**ACC 511 Managerial Cost Accounting II.** 3(3-0) S.

Prerequisite: "C" grade or better in ACC 311. A continuation of the topics examined in ACC 311. Specific topics covered include activity-based costing, strategic cost management, activity- and strategic-based responsibility accounting, quality costing, measurement and control of productivity, environmental cost management, cost-volume-profit analysis, activity resource usage, relevant costing, pricing and profitability analysis, capital investment decisions, and inventory management topics such as economic order quantity, just-in-time, and the theory of constraints.

**ACC 521 (444) Tax Accounting II.** 3(3-0) F,S.

Prerequisite: grade of "C" or better in ACC 321; and undergraduate business majors must be admitted to COBA. Principles of federal tax accounting; research in income tax problems of partnerships and corporations; estate and gift tax problems of individuals.

**ACC 531 (331) Governmental and Not-For-Profit Organizational Accounting.** 3(3-0) F,S.

Prerequisite: 75 credit hours and a grade of "C" or better in one of ACC 201 or ACC 206 or ACC 500; and undergraduate business majors must be admitted to COBA. Governmental and not-for-profit organizational accounting records and funds, budgeting, budget control, analysis and interpretation of financial statements.

**ACC 550 Auditing.** 3(3-0) F,S.

Prerequisite: grade of "C" or better in both ACC 302 and ACC 341; and undergraduate business majors must be admitted to COBA. Kinds of audits, the duties and obligations of the auditor, principles and procedures to be followed in conducting an audit. A grade of "C" or better is required in this course in order to take ACC 650. May not be taken Pass/Not Pass.

**ACC 555 Internal Auditing.** 3(3-0) F.

Prerequisite: grade of "C" or better in one of ACC 341 or CIS 429 or CIS 461; and undergraduate business majors must be admitted to COBA. Functions of internal audit, financial audit, and operations audit; importance of the changing professional status of the internal auditor.

**ACC 556 Operational Auditing.** 3(3-0) S.

Prerequisite: 60 credit hours; and undergraduate business majors must be admitted to COBA. Primarily a case study approach covering nonfinancial audits of efficient and effective resource utilization, accomplishment of operational goals, adherence to laws and regulations, fraud prevention and detection, integrity and security of computer systems, and achievement of program goals.

**ACC 596 (500) Research Issues and Problems: Accounting.** 1-3, D.

Prerequisite: 60 credit hours and permission of the School of Accountancy Director; and undergraduate business majors must be admitted to COBA. Research issues and projects growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 3 hours.

***The following courses are open only to graduate students.*****ACC 603 Seminar in Accounting Theory.** 3(3-0) F,S.

Prerequisite: ACC 302 and 15 credit hours of accounting courses at the 300 level or higher. Critical evaluation and interpretation of accounting theory. Completion of a significant research project.

**ACC 605 Advanced Financial Accounting Problems.** 3(3-0) F,S.

Prerequisite: ACC 302 and ACC 504 or concurrent enrollment in ACC 504. Case studies of the application of major authoritative financial accounting pronouncements to integrated financial accounting problems; emphasis on the impact of accounting pronouncements on financial reporting, the changing trend in accounting theory and the possible future development of accounting pronouncements.

**ACC 611 Managerial Accounting.** 3(3-0) F,S.

Prerequisite: ACC 211 or ACC 206 or ACC 500. Role of accounting in improving the practice of business management; budgeting, accounting analysis, the behavior of costs, accounting control. This course will not be counted in the 33 semester hours required for the MAcc degree.

**ACC 612 (512) Controllership and Communication.** 3(3-0) F.

Prerequisite: ACC 311 or ACC 611. An in-depth examination of the leadership and communication challenges associated with being a controller and/or professional accountant. The written and oral communication skills required for success as a professional accountant will be developed.

**ACC 615 (546) Advanced Cost Accounting.** 3(3-0) S.

Prerequisite: ACC 311 or ACC 611. An in-depth study of problems and contemporary issues in cost accounting. An introduction to selected quantitative techniques used by accountants to solve cost accounting problems.

**ACC 621 Advanced Tax Accounting.** 3(3-0) S.

Prerequisite: ACC 321 and ACC 521. Research and presentation of chosen topics from the field of tax accounting. Study will focus on the impact of taxation on business planning and decision making.

**ACC 622 Public Service Tax Accounting.** 3(2-3) S.

Prerequisite: permission of instructor. Students will learn theoretical foundations in public service tax accounting topics and develop skills; which will apply to practical situations that will help students be better citizens and employees. Students will assist low-income, elderly, and English as Second Language taxpayers in the community in identifying and meeting their tax rights and responsibilities.

**ACC 631 Control of Non-Profit Organizations.** 3(3-0) D.

Prerequisite: ACC 311 or ACC 611. Case study approach to financial control in non-profit organizations. Special emphasis is on governmental and health care organizations, although other non-profit organizations are also studied.

**ACC 641 Advanced Accounting and Management Information Systems.** 3(3-0) F.

Prerequisite: ACC 341. Application of the concepts of systems design and implementation. Study of the attributes of accounting information systems and their relationship with management information systems. Functions of accounting information systems including data collection and transmission, internal controls, data organizations and storage, processing data, and information retrieval and display. Characteristics and applications of both manual and automated information systems.

**ACC 650 (551) Advanced Auditing.** 3(3-0) F,S.

Prerequisite: ACC 550. External auditing procedures; implementing auditing standards; verifying adherence to generally accepted accounting principles; importance of the auditor's attest function.

**ACC 651 Information Systems Auditing.** 3(3-0) S.

Prerequisite: ACC 550 or ACC 555. A study of information systems controls; auditing around, through, and with the computer; auditing advanced computer systems, spreadsheets and other fourth generation language applications. Hands-on computer auditing projects will be integrated into the course.

**ACC 652 Fraud Examination.** 3(3-0) D.

Prerequisite: grade of "C" or better in ACC 211 or ACC 206 or ACC 500, and permission of instructor. An in-depth study of the fraud examination process, including fraud prevention, detection, investigation, and management and employee fraud, and the legal aspects of fraud. Case studies are used extensively throughout the course.

**ACC 690 Seminar in Accounting.** 3(3-0) D.

Prerequisite: 12 graduate credit hours of accounting courses and permission of the Master of Accountancy Program Director. Critical evaluation and interpretation of the current research and professional literature in accounting. Study of ethical and institutional features of the accounting environment. Completion of a significant research project.

**ACC 694 Internship: Accounting.** 3(3-0) D.

Prerequisite: 12 graduate credit hours of accounting courses and permission of the Master of Accountancy Program Director. In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined, and evaluated during the semester.

**ACC 696 Independent Study-Accounting.** 1-3, D.

Prerequisite: permission of Master of Accountancy Program Director. In consultation with coordinating professor, student selects for intensive study of a specific area of concern related to the student's program, with emphasis on research.

**ACC 697 (670) Special Topics in Accounting.** 1-3, D.

Prerequisite: 9 graduate credit hours of accounting courses and permission of the Master of Accountancy Program Director. In-depth study of contemporary topics in accounting. Each offering concerns a single topic. May be repeated with departmental permission to a total of 9 hours.

**ACC 699 (599) Thesis.** 1-6, D.

Prerequisite: permission of the Master of Accountancy Program Director. Independent research and study connected with preparation of thesis.



## Department of Computer Information Systems

359 Glass Hall, Phone: 836-4131, FAX: 836-6907

Email: [ComputerInformationSystems@missouristate.edu](mailto:ComputerInformationSystems@missouristate.edu)

**Department Head:** Professor Jerry M. Chin, D.B.A.

**Professors:** Tonya Barrier, Ph.D.; Michael Hignite, Ph.D.; Rajeev Kaula, Ph.D.; Chung Kim, Ph.D.; Thomas M. Margavio, Ph.D.; David B. Meinert, Ph.D.; Heidi R. Perreault, Ed.D.; John W. Satzinger, Ph.D.

**Associate Professors:** Ronald Dattero, Ph.D.; Richard Johnson, Ph.D.; Duane Moses, Ph.D.; Randall S. Sexton, Ph.D.

**Assistant Professors:** Sheryl Brahnham, Ph.D.; Hong Zhang, M.S.

**Instructor:** David Crockett, M.B.A.

**Lecturers:** Richard Burton, M.B.A.; Karen Eagles, M.A.; Jeremy Harris, M.M.; Shanon McMurtrey, M.B.A.; Juan Meraz, M.B.A.; Glenna Vanderhoof, Ph.D.; Cathy VanLanudyt, M.B.A.

**Emeritus Professors:** James T. Brown, Ed.D.; Irene A. Francka, Ed.S.; Lois M. Garrett, M.Ed.; Woodfin C. Garrett, M.T.; Neva P. Maddox Johnson, M.Ed.; Maxine W. Short, M.Ed.; Jean C. Swanson, Ph.D.; Ann L. Wilson, M.S.

**Accreditations and Approvals:** AACSB International—The Association to Advance Collegiate Schools of Business – all programs; Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Business Education, B.S.Ed., Secondary Education/Business Education, M.S.Ed.

### General Education Course

CIS 101, will satisfy the Computers for Learning requirement for General Education.

### Proficiency Examination

A proficiency examination to obtain waiver from completing the General Education/Computers for Learning requirement (CIS 101, CSC 101, CSC 111) is available. Credit is not granted for this examination. See the department for information.

## Majors

### Business Education (Comprehensive) Bachelor of Science in Education (Certifiable grades 9-12)

NOTE: This program also requires compliance with the Teacher Education Program requirements for admission, continuation, approval for supervised teaching, and recommendation for certification; as well as the requirements for Secondary Education. These requirements are listed in the "Academic Programs and Requirements" section of the catalog.

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
- B. COBA Admission and Program Requirements - see "College of Business Administration/Admission and Program Requirements" section of catalog
- C. Major Requirements (12 hours):  
CIS 195(3), CIS 205(3) or CIS 260(3), BSE 524(3), BSE 540(3)
- D. Professional Education Courses: BSE 503(3), BSE 493(5-6), BSE 494(5-6) and see "Academic Programs and Requirements/Secondary Education" section of catalog
- E. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog
- F. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all specific course requirements for all majors in COBA and all courses listed under C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.
- G. In order to meet Missouri state teacher certification requirements for business, candidates are required to meet the following work experience requirements: 2,000 hours of work experience in a business related field, or completion of an internship approved by the CIS department. Approval is determined by the nature of the employment in a business occupation. The work experience hours and internship experience are documented within the professional education portfolio.

### Computer Information Systems (Comprehensive) Bachelor of Science

#### Admission Requirements

In addition to the College of Business Administration admission requirements, all students majoring in Computer Information Systems must also satisfy the following admission requirements in order to be admissible to the program:

1. Have a combined grade point average (Missouri State plus transfer) of 2.50 or higher
  2. Complete the following two departmental admission courses with a GPA of 2.50 or higher and no grade below a "C": CIS 260(3) and CIS 270(3)
  3. Submit application for admission to degree program and receive approval of the Head of the Computer Information Systems Department prior to completing 60 credit hours (Missouri State and transfer combined). Students with 60 or more credit hours who have not been admitted to the program will not be allowed to continue as CIS majors without special permission from the College of Business Advisement Center.
- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog
  - B. COBA Admission and Program Requirements - see "College of Business Administration/Admission and Program Requirements" section of catalog (NOTE: CIS 461(3) must be taken by CIS majors)
  - C. Major Requirements
    1. CIS 260(3), 270(3), 321(3), 324(3), 326(3), 431(3), 528(3), 591(3)
    2. Complete 6 hours from the following: CIS 275(3), 316(3), 323(3), 330(3), 334(3), 350(3), 375(3), 394(3), 397(3), 540(3)
  - D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Minors

### Business Education Bachelor of Science in Education (Certifiable grades 9-12)

- A. ACC 201(3); BSE 524(3), 540(3); CIS 195(3), 201(2); CIS 205(3) or 260(3); CIS 429(3); ECO 155(3); MGT 286(3), 340(3); MKT 350(3); RIL 231(3) (35 hours)
- B. BSE 503 required for state teacher certification
- C. In order to meet Missouri state teacher certification requirements, all candidates for the Bachelor of Science in Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area which includes all courses required for the minor.

- D. In order to meet Missouri state teacher certification requirements for business, candidates are required to meet the following work experience requirements: 2,000 hours of work experience in a business related field, or completion of an internship approved by the CIS department. Approval is determined by the nature of the employment in a business occupation. The work experience hours and internship experience are documented within the professional education portfolio.

## Computer Information Systems

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

- A. CIS 260(3), 270(3), 321(3), 324(3), 326(3)  
 B. Complete 3 additional hours from the following: CIS 275(3), 323(3), 330(3), 334(3), 350(3), 375(3), 394(3), 397(3)

## Web Application Development

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

CIS 260(3), CIS 275(3), CIS 321(3), CIS 326(3), CIS 330(3), CIS 375(3)

## Graduate Programs

The Master of Science degree offers a major in Computer Information Systems. The Master of Science in Education degree (secondary education major) offers an area of emphasis in business. See the Graduate Catalog for details.

### Accelerated Master of Business Administration degree

Eligible undergraduate students majoring in the College of Business Administration may apply for preliminary acceptance into the Master of Business Administration degree program during the second semester of their junior year after admission requirements for the accelerated masters program have been satisfied. If approved, up to six hours of 500-level or 600-level COBA courses taken in the senior year may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the MBA program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Business Education Courses

### BSE 493 Supervised Teaching (Business-Secondary Education). 5-6, F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both SEC 493 and BSE 493.

### BSE 494 Supervised Teaching (Business-Secondary Education). 5-6, F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the

Professional Preparation Portfolio which will be included as a portion of the course grade. Will not count toward the major GPA. Cannot receive credit for both SEC 494 and BSE 494.

### BSE 499 Clinical Experiences in Teaching II. 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate Praxis II exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

### BSE 503 (403) Teaching of Business. 3(3-0) F.

Prerequisite: EDC 350, admitted to teacher education program, ACC 211 or ACC 206, and 70 hours, and approved major or minor in business; or permission of department head. Development of a philosophy for and about business education; study of relevant legislation; study of methods of teaching selected business subjects including use of research-based readings, observation, and microteaching. A grade of "C" or better is required in this course in order to take BSE 493 or BSE 494. May not be taken Pass/Not Pass.

### BSE 509 (AOS) Business Education Workshop. 1-5, D.

Development and promotion of desirable programs in business education. Each workshop emphasizes a single topic. May be repeated for a maximum of 5 hours when topic varies.

### BSE 520 (AOS) Occupational Analysis. 1-2, D. (Identical with AGV 520)

Prerequisite: teacher certification or permission. Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. May be repeated to a total of 2 hours when topic varies.

### BSE 522 (AOS) Philosophy of Vocational Education. 1-3, D. (Identical with AGV 522 and SEC 522)

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. Meets Missouri Vocational Education certification requirements. May be repeated to a total of 3 hours when topic varies.

### BSE 523 (AOS) Guidance for Vocational Development. 1-3, D. (Identical with AGV 523)

Prerequisite: teacher certification or permission. Materials, procedures, and problems in guidance of individuals in the selection of, preparation for, and advancement in a vocation. May be repeated to a total of 3 hours when topic varies.

### BSE 524 (624) Implementing Vocational Business Education Programs. 1-3, D.

Problems; procedures; and local, state and federal relationships in the implementation and administration of vocational business education in the contemporary school.

### BSE 526 (AOS) Coordination of Cooperative Education. 1-2, D. (Identical with AGV 526 and SEC 526)

Prerequisite: teacher certification or permission. Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Restricted to those who can qualify as coordinators. May be repeated to a total of 2 hours when topic varies.

### BSE 528 (AOS) Measurement and Evaluation of Vocational Education Programs. 1-3, D. (Identical with AGV 528 and SEC 528)

Prerequisite: teacher certification or permission. Assessing specific program needs as determined from occupational surveys and other demographic data; follow-up techniques to evaluate the overall effectiveness of the program on manpower needs in a given labor market area. May be repeated to a total of 3 hours when topic varies.

### BSE 540 (AOS) Curriculum Development for Business Education. 3(3-0) S.

Prerequisite: admitted to teacher education program. Major emphasis given to curriculum development in business courses. Selected topics

include teaching basic business courses; developing course objectives, content, and evaluative strategies; sponsoring youth organizations; selecting equipment.

**BSE 596 (AOS) Problems in Business Education.** 1-3, F,S.

Technical or professional problems growing from particular needs that may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 3 hours when topic varies.

*The following courses are open only to graduate students.*

**BSE 605 (AOS) Curriculum Construction in Business Education.** 1-3, D. (Identical with SEC 605)

Objectives and interrelationships of business education courses and programs. Development of curricular materials and evaluative devices. May be repeated to a total of 3 hours when topic varies.

**BSE 610 (AOS) Improvement of Instruction in Business Education.** 1-3, D.

Current developments and trends in teaching business subjects; new developments in resources, methods, and techniques. May be repeated to a total of 3 hours when topic varies.

**BSE 630 (AOS) Research Seminar in Business Education.** 3(3-0) D. Critical interpretation and evaluations of research in business education. Individualized assistance provided in the development of an extensive research paper to satisfy the requirement for Research Option II.

## Computer Information Systems Courses

**CIS 101 Computers for Learning.** 2(1-2) F,S. (Identical with CSC 101)

Fundamental computer concepts including word processing spreadsheets, assessing information and the responsible use of information and technology. Course may be waived by proficiency exam.

**CIS 195 (AOS) Introduction to Desktop Publishing.** 3(3-0) F.

Prerequisite: CIS 101 or CSC 101 or CSC 111 or CIS/CSC 101 waiver exam or permission. Introduction to desktop publishing concepts and applications.

**CIS 197 (AOS) Topics in Computer Information Systems.** 1-3, D. Prerequisite: permission of department head. Study of topics in Computer Information Systems. May be repeated as topics change to a total of 6 hours.

**CIS 201 Computer Applications for Business.** 2(2-0) F,S.

Prerequisite: CIS 101 or CSC 101 or CSC 111 or waiver exam. A study of the use and applications of computer information systems concepts in business and public organizations. The course emphasizes the use of spreadsheet software to plan, analyze, design, develop and test business solutions.

**CIS 202 Program Design and Development.** 3(3-0) F,S.

Prerequisite: CIS 101 or CSC 101 or CSC 111 or waiver exam. A study of structured program design, concepts and techniques related to the development of computer programs with an emphasis on business applications. A high level language is used to implement the design concepts and techniques.

**CIS 205 Web Site Design & Development.** 3(3-0) F,S.

Prerequisite: CIS 101 or CSC 101 or CSC 111 or waiver exam. A study of the design and development of web sites using HTML editors (such as Microsoft FrontPage or Macromedia Dreamweaver). Graphics packages and multimedia packages. The student will learn to create and deploy professional-grade web sites.

**CIS 223 Introduction to COBOL Programming.** 3(3-0) F,S.

Prerequisite: CIS 202. Introduction to COBOL (Common Business Oriented Language) programming to process business data.

**CIS 224 Windows Programming with Development Tools.** 3(3-0) F,S.

Prerequisite: CIS 202. An introduction to development of computer applications using rapid developmental tools such as Visual Basic. Emphasis on designing and managing graphical user interfaces, procedures, file management, debugging, and testing.

**CIS 260 Application Development I.** 3(3-0) F,S.

Prerequisite: CIS 101 or CSC 101 or CSC 111 or waiver exam. Introduction to the key concepts of object technology and the fundamentals of the Java programming language. Projects using Java involve the development of elementary applications and applets.

**CIS 270 Application Development II.** 3(3-0) F,S.

Prerequisite: CIS 260. This course is a continuation of the study of object technology and the Java programming language. Projects using Java involve the development of standalone and web based applets. Topics include Swing, layout managers, event handling, exception handling, inheritance, arrays, graphics, and file I/O. An introduction to HTML is covered to support web server based applets.

**CIS 275 Web Application Development for Business I.** 3(3-0) F.

Prerequisite: CIS 260. Introduction to the key concepts of developing business applications for the World Wide Web, a critical element of successful e-business systems. Provides extensive hands-on experience of an introductory nature in several important web technologies such as HTML, XHTML, CSS, XML, ASP, and scripting languages (e.g., JavaScript and/or VBScript).

**CIS 290 (AOS) Advanced Microcomputer Applications.** 3(3-0) F,S.

Prerequisite: CIS 101 or CSC 101 or equivalent. Emphasis on problem-solving activities using advanced applications such as word processing, desktop publishing, database, graphics, and multimedia.

**CIS 294 (AOS) Internship in Computer Information Systems.** 1-3, F,S.

Prerequisite: permission of advisor. Work-study program with cooperating employers in appropriate office situations to include a broad range of relevant on-the-job experiences. May be repeated to a total of 3 hours.

**CIS 316 (226) Computer Programming in RPG.** 3(3-0) F,S.

Prerequisite: CIS 270 or permission; and undergraduate business majors must be admitted to COBA. Solving business-oriented problems using RPG (Report Program Generator) programming language.

**CIS 320 Survey of Computer Languages.** 3(3-0) D.

Prerequisite: CIS 223 or CIS 224 or CIS 260 or permission; and undergraduate business majors must be admitted to COBA. A survey of computer languages used for business applications with emphasis on teaching high level languages currently not being taught in other CIS courses.

**CIS 321 Information Systems Analysis and Design.** 3(3-0) F,S.

Prerequisite: CIS 270 or concurrent enrollment; and undergraduate business majors must be admitted to COBA. A study of the analysis and design of computer information systems. Course includes developing a study project using CASE tools.

**CIS 323 Advanced COBOL Programming Techniques.** 3(3-0) F,S.

Prerequisite: CIS 270 and CIS 321 and CIS 326; and undergraduate business majors must be admitted to COBA. Methods and techniques of programming for applications in the solution of business problems, using COBOL.

**CIS 324 Computer Technology I.** 3(3-0) F,S.

Prerequisite: CIS 270 or concurrent enrollment; and undergraduate business majors must be admitted to COBA. A study of computer hardware and system software as it relates to the IT professional.

**CIS 326 (526) Database Management Systems Concepts and Design.** 3(3-0) F, S.

Prerequisite: CIS 321 or concurrent enrollment; and undergraduate business majors must be admitted to COBA. Study of database management concepts and techniques. Emphasis on data modeling using various data models such as semantic object, entity-relationship, relational, hierarchical, and network. Discussion and application of SQL to develop and query databases. Additional topics include database administration, study of micro and mainframe DBMS such as SQL/DS (DB2), client-server database environment, and distributed databases. Completion of a major study project is required.

**CIS 330 Computer Technology II.** 3(3-0) F,S.

Prerequisite: CIS 324; and undergraduate business majors must be admitted to COBA. A study of basic computer networking fundamentals and network operating systems. Topics include: Network Topology, Media, NIC's, the OSI model, Protocols, Network Architecture, Network Operating Systems (e.g., Microsoft, NetWare, or Linux), Enterprise Networks, Wide Area Networks and Troubleshooting.

**CIS 334 Advanced Windows Applications Programming.** 3(3-0) F,S.

Prerequisite: CIS 270 and 321 and 326; and undergraduate business majors must be admitted to COBA. Methods and techniques of designing and Implementing Windows software applications. Case study will provide a framework for developing working prototypes of business applications using a graphical user interface, object-oriented language.

**CIS 350 Advanced Object-Oriented Programming.** 3(3-0) F,S.  
Prerequisite: CIS 270 and CIS 321 and CIS 326; and undergraduate business majors must be admitted to COBA. A continuation of CIS 270 using the Java programming language. Projects will include both database concepts and analysis and design concepts.

**CIS 360 Object Technology II.** 3(3-0) F,S.  
Prerequisite: CIS 260; and undergraduate business majors must be admitted to COBA. This course is a continuation of the study of object technology and the Java programming language. Projects using Java involve the development of standalone and web based applets. Topics include abstract windows toolkit (AWT), layout managers, event handling, exception handling, inheritance, arrays, graphics, and file I/O. An introduction to HTML is covered to support web server based applets.

**CIS 375 Web Application Development for Business II.** 3(3-0) S.  
Prerequisite: CIS 275 or permission of instructor; and undergraduate business majors must be admitted to COBA. Continuing coverage of the key concepts of developing intermediate to advanced business applications for the World Wide Web within the context of e-business. Provides extensive hands-on experience of an advanced nature in several important web technologies such as HTML, XHTML, CSS, XML, ASP, and scripting languages (e.g., JavaScript and/or VPScript). The student will be expected to develop a working e-business system.

**CIS 385 (AOS) Records Storage and Retrieval Systems.** 3(3-0) F,S.  
A study of the design and use of records storage and retrieval systems to include micrographics, electronic controls, and optical disk systems.

**CIS 394 (399) Cooperative Education in CIS.** 1-3, F,S.  
Prerequisite: acceptance into Cooperative Education Program and permission of department head; and undergraduate business majors must be admitted to COBA. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. This is a variable content course that may be repeated to a total of 6 semester hours in Cooperative Education.

**CIS 396 (AOS) Readings in Computer Information Systems.** 1-2, D.  
Prerequisite: permission of department head; and undergraduate business majors must be admitted to COBA. Planned readings designed to intensify and supplement an area of computer information systems or business education.

**CIS 397 (300) Topics in Computer Information Systems.** 1-3, F,S.  
Prerequisite: permission; and undergraduate business majors must be admitted to COBA. A variable content course with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. May be repeated to a total of 6 hours.

**CIS 429 Information Systems in Business.** 3(3-0) F,S.  
Prerequisite: CIS 201; 90 hours which includes two of the following three courses: FGB 380, MGT 364, and MKT 350; and undergraduate business majors must be admitted to COBA. Computer information systems analysis, design, and utilization including information as a resource, hardware/software concepts, data communications, database concepts, systems development and general systems concepts. Explores various computer information systems applications in accounting, management, marketing, finance, and office administration. May not be taken for credit by the Computer Information Systems major.

**CIS 431 Advanced Systems Analysis and Design.** 3(3-0) F,S.  
Prerequisite: CIS 321; and undergraduate business majors must be admitted to COBA. Advanced study of systems development methodologies. The course emphasizes the strategies and techniques utilized for analysis and design in the development of complex information systems.

**CIS 461 Strategic Management Information Systems.** 3(3-0) F,S.  
Prerequisite: CIS 321; and undergraduate majors must be admitted to COBA. The role of Information Technology (IT)/Information Systems (IS) as a key contributor to the success of the contemporary organization and the relationships that exist between the IT/IS function and other organization units is emphasized. The course focuses on the effective management of the IT/IS function and related topics such as the relationship of technology use and the globalization of trade, the use of IT for competitive advantage, and how technology may affect supply and value chain management, enterprise planning, etc. Cannot receive credit for both CIS 461 and CIS 661.

**CIS 494 (AOS) Internship in Computer Information Systems.** 1-3, F,S.  
Prerequisite: permission of department head; and undergraduate business majors must be admitted to COBA. Work-study program with coop-

erating employers. Class or conference study of problems encountered by the student; on-the-job application of principles with analysis and improvement of work operations. May be repeated to a total of 3 hours.

**CIS 500 Information Systems in Business Organizations.** 3(3-0) F,S.  
Prerequisite: permission of a director of a COBA graduate program. Comprehensive study of the fundamentals of business information systems. Designed for graduate students who have not had undergraduate information systems courses. Will not be counted in the hours required for a COBA undergraduate or graduate degree.

**CIS 510 e-Business Technology Concepts.** 3(3-0) F,S.  
Prerequisite: CIS 201 and FGB 510; and undergraduate business majors must be admitted to COBA. An introduction to e-Business and Internet concepts and technology. The course emphasizes content driven web development using database concepts.

**CIS 515 Fourth-Generation Languages.** 3(3-0) S.  
Prerequisite: CIS 321 or CIS 429 or permission; and undergraduate business majors must be admitted to COBA. An introduction to fourth-generation languages (4GL). A study of the versatility and integrated functions of popular fourth generation languages including general application development, report generation, data base query, screen development and graphics.

**CIS 522 Decision Support Systems Development.** 3(3-0) D.  
Prerequisite: QBA 337 and CIS 323; and undergraduate business majors must be admitted to COBA. A study of Decision Support Systems (DSS), a review of current DSS literature, and the design and development of a DSS with emphasis on the user interface.

**CIS 528 Database Management Systems Implementation.** 3(3-0) F,S.  
Prerequisite: CIS 326; and undergraduate business majors must be admitted to COBA. Application of database management principles in the implementation of a business information system. Emphasis will be on the design, construction, testing, and installation of a comprehensive database system using SQL, fourth generation languages or other data access tools.

**CIS 530 (AOS) Training for End User Computing.** 3(3-0) F.  
An analysis of the training function and its application to end user computing. Emphasis on selecting appropriate methods and media.

**CIS 540 Advanced Network Administration.** 3(3-0) F,S.  
Prerequisite: CIS 330 or CSC 465, or permission; and undergraduate business majors must be admitted to COBA. Application of basic networking concepts to create working network systems for organizations and to solve business problems. Installing and configuring network operating systems and Internet web servers. Planning and implementing network security schemes. Planning and implementing enterprise networking. Server-based roll-outs and maintenance of applications on multiple workstations.

**CIS 550 Advanced Object-Oriented Systems.** 3(3-0) F,S.  
Prerequisite: CIS 326 and CIS 350; and undergraduate business majors must be admitted to COBA. Application of the concepts of object-oriented systems. Case study approach provides the framework for developing working prototypes of business applications using one or more graphical user interface object-oriented languages.

**CIS 591 (521) Information Systems Development.** 3(3-0) F,S.  
Prerequisite: 90 hours, CIS 323 or CIS 334 or CIS 350 or CIS 375; and CIS 528; and undergraduate business majors must be admitted to COBA. Independent analysis, design and development of an information system in a field of the student's choice. With the instructor's approval, the system can be developed in a language and on a machine of the student's choice. These systems can be individual or group projects. May not be taken Pass/Not Pass.

**CIS 596 Problems in Business: Computer Information Systems.** 1-3, D.  
Prerequisite: 60 hours or permission; and undergraduate business majors must be admitted to COBA. Technical or professional problems growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 3 hours.

*The following courses are open only to graduate students.*

**CIS 607 (AOS) Practicum in Computer Information Systems.** 1-3, D.  
Prerequisite: permission of department head. Work-study program with cooperating employers. Class and/or conference discussion of suc-

cesses achieved and problems encountered by the student. On-the-job application of techniques, methods, procedures, and principles dealt with in other courses.

**CIS 620 Project Management in Information Systems.** 3(3-0) D. A study of the concepts, practices, processes, tools, techniques and resources used by information system (IS) project managers. The entire project life cycle will be covered from inception to close-out. The course will closely follow the framework of the Project Management Body of Knowledge (PMBOK). The course will focus on how to manage the scope, schedule, budget and risk of projects, with emphasis on information systems and information technology projects.

**CIS 625 Neural Networks.** 3(3-0) D.

An introduction to the subject to solve business problems using neural network software. In addition, the student will study the theory and framework for the appropriate use of neural networks in regard to solution and data analysis.

**CIS 632 Information Systems Planning.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Introduction to fundamental issues of information system (IS) planning. Current theory and specific IS planning practices are studied. Emphasis on strategic implications of information technology, IS planning vis-à-vis strategic planning, development and maintenance of IS plans, analysis of organization information requirements, and prioritizing IS projects. Implications for business and technology trends and application of planning concepts to IS planning projects are examined.

**CIS 634 Staffing the Information Systems Function.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Focus on current and emerging issues of recruitment, selection, training, motivation, retention and evaluation of IS staff. Issues include developing job descriptions, shifting demands for staffing, performance criteria, alternative approaches to training, alternative career tracks, and the role of personality types on performance. Influence of recent trends including downsizing, outsourcing, centralization and decentralization, and end-user computing will be examined. Current theory and specific practices are studied. Practical applications will be stressed.

**CIS 636 Network Planning and Administration.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Computer network planning, including physical layout, resource requirements, and budgeting. Administration of computer networks, including managing user accounts; selecting and loading applications software; managing upgrades and enhancements; monitoring and optimizing system performance; ensuring physical and logical system security.

**CIS 638 Information System Project Management.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Objectives and techniques of planning, organizing, and managing complex information systems development projects. The course will include a study of resources and tools available for scheduling, tracking, and measuring system development productivity.

**CIS 640 Comparative Systems Development Methodology.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Study of various systems development methodologies used to analyze, design, and implement information systems; selection criteria for a specific methodology, and how to introduce a new methodology within an existing environment. Specific tools and techniques for systems development and for business process reengineering will be explored and applied.

**CIS 642 Management of End User Computing.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Planning, organizing, staffing, control, and support of end user computing. Various organizational structures used to support end user computing will be investigated. Methodology for development of end user computing systems will be identified for several forms and types of projects. A case project will involve development of an end user system using an appropriate methodology.

**CIS 644 Information Systems Management.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Overview of managerial applications of information technology (IT) to increase effectiveness. Use of IT to support decision making, cooperative work, organizational competitive advantage, and inter-organizational communication. Various planning approaches will illustrate the use of IT in organizations. Case method will be used.

**CIS 646 Data Modeling and Database Administration.** 3(3-0) D. Prerequisite: acceptance in the M.S. in CIS program. Study of data modeling using tools such as Entity-Relationship and Semantic Object Models. Examination of the Database Administrator's responsibilities including monitoring and tuning of the database, establishment of database reliability, and security. A case project will include the development of a data model and a database administration plan for a client/server database system.

**CIS 647 IT Legal Issues.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Focus on the legal and ethical environment relevant to advances in technology. Issues include intellectual property, jurisdiction, defamation, invasion of privacy, electronic contracts, computer crime, censorship, unsolicited E-mail, antitrust issues, and encryption. Recent developments, court decisions, federal and state statutes, treaties and international agreements, administrative rulings, and legal literature regarding Internet law, will be explored and explained.

**CIS 650 Information System Resource Acquisition.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. In-depth study of key factors and issues associated with hardware/software selection, acquisition and implementation. Emphasis on problem definition and analysis, comparative methodologies for evaluation and selection, identifying and qualifying vendors, and developing/evaluating request for proposals (RFP's). Management implications of enterprise-wide software solutions including software distribution, version and release management, and software standards and practices are discussed. Completion of an acquisition project will be included.

**CIS 654 Organizational Transformation.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Study of interrelated economic, social, political, and technological forces requiring organizations to transform their systems and processes to survive and succeed. Students will examine a variety of typical transformations from the perspective of a work unit member and a manager of the change process.

**CIS 656 Special Topics in Information Systems.** 3(3-0) D.

Prerequisite: acceptance in the M.S. in CIS program. Variable content with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. Practical applications will be stressed. The course may be repeated for a total of six hours.

**CIS 661 Management Information Systems.** 3(3-0) S.

Prerequisite: CIS 429 or CIS 500 or equivalent. A macro application to the concept, design and implementation of management information systems. This course is designed to be useful to MBA students interested in management information systems development as well as those who plan to be involved in managing MIS projects. Cannot receive credit for both CIS 461 and CIS 661.

**CIS 690 Seminar in Computer Information Systems.** 3(3-0) D.

Prerequisite: 15 graduate hours in business administration and economics and permission of the coordinator of graduate studies. Critical evaluation and interpretation of research and literature in information systems.

**CIS 694 Internship: Computer Information Systems.** 3(3-0) F,S.

Prerequisite: permission of the director of the appropriate graduate program and department head. In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

**CIS 696 Independent Study—Computer Information Systems 1-3, F,S.**

Prerequisite: permission of advisor. In consultation with the advisor, student selects, for intensive study, a specific area of concern related to the student's program, with emphasis on research.

**CIS 697 (AOS) Special Topics.** 1-3, D.

Prerequisite: permission. Study of topics in Computer Information Systems/Business Education. May be repeated to a total of 6 hours when topic varies.

**CIS 699 Thesis.** 1-6, D.

Prerequisite: permission of instructor. Independent research and study connected with the preparation of a thesis.

## Department of Finance and General Business

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**Department Head:** Professor George S. Swales, Jr., Ph.D.

**Professors:** Wayne L. Anderson, M.B.A., J.D.; John S. Bowdidge, Ph.D.; C. Edward Chang, Ph.D.; Carol J. Miller, M.B.A., J.D.; Robert W. Owens, Ph.D.; James B. Pettijohn, Ph.D.

**Associate Professors:** Stanley R. Adamson, Ph.D.; Susan J. Crain, Ph.D.; Kee S. Kim, Ph.D.; Walt A. Nelson, Ph.D.; Kent P. Ragan, Ph.D., CFA

**Assistant Professors:** Stanley A. Leasure, J.D.; James David Philpot, Ph.D.; James R. Scott, Ph.D.

**Lecturer:** Juan Meraz, M.B.A.

**Emeritus Professors:** John E. Adamson, M.B.A., J.D.; Vencil J. Bixler, Ph.D., CLU, ChFC; Ivan D. Calton, Ed.D.; Joel Chaney, D.B.A.; Frank L. Clark, Ph.D.; John K. Litvan, Ph.D.; Ralph K. Manley, M.B.A.; John E. Patton, CLU, M.S. in Ed.

**Accreditation:** AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Credit By Examination

Credit for FGB 135 is available for the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of catalog.

## Majors

### Finance (Comprehensive)

#### Bachelor of Science

A. General Education Requirements - see “Academic Programs and Requirements” section of catalog

B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog

C. Major Requirements (31-32 hours)

1. FGB 384(3), or ECO 305(3); FGB 485(3); QBA 337(3); RIL 211(3); RIL 335(2) or 533(3); RIL 266(3)

2. Complete a minimum of 14 hours from one of the following two options:

a. **Finance**

1. FGB 386(2)\*; FGB 390(3)

2. Complete one of the following: FGB 480(3), 484(3), 487(3)

3. Complete six additional hours from the following: FGB 381(3), 480(3), 484(3), 487(3), 496(1-2), 584(3)

Recommended electives (not required): ACC 321(3), 521(3); FGB 307(2); RIL 312(3), 367(3), 369(3), 538(3); ECO 365(3), 385(3), 586(3)

\*Students who have completed both ACC 301 and 302 may waive FGB 386.

b. **Real Estate**

1. RIL 367(3), 368(3), 369(3)

2. Complete five additional hours from the following: AGB 354(2); ECO 450(3); FGB 496(1-2), 596(1-3); GRY 322(3); IDM 121(3), 122(3), 221(3), 320(3); PLN 271(3), 471(3); RIL 313(3)

Recommended electives (not required): AGH 333(3); HID 140(3), 241(3); MKT 352(3)

D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

### General Business (Comprehensive)

#### Bachelor of Science

A. General Education Requirements - see “Academic Programs and Requirements” section of catalog

B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog

C. Major Requirements (31-32 hours)

1. QBA 337(3); RIL 211(3); RIL 335(2) or 533(3)

2. Complete one of the following: ENG 220(3), 321(3); JRN 270(3), MGT 397(3)

3. Complete a minimum of 20 hours from at least five of the following areas:

a. Accounting: ACC 301(3), 302(3), 311(3), 321(3), 521(3), 531(3)

b. Banking: FGB 384(3) or ECO 305(3); FGB 484(3)

c. Business Communications: MGT 486(3)

d. Computer Information Systems: CIS 205(3), 260(3), 270(3), 275(3), 290(3), 375(3)

e. Finance: FGB 386(2), 381(3), 390(3), 485(3)

f. Insurance and Estate Planning: RIL 312(3), 313(3), 314(3), 341(3), 415(3), 538(3)

g. Management: MGT 345(3), 561(3); RIL 531(3)

h. Marketing: MKT 351(3), 352(3), 354(3), 355(3)

i. Real Estate: RIL 266(3), 367(3), 368(3), 369(3)

Recommended electives (not required): AGB 354(2); ECO 586(3); FGB 303(2), 307(2); GRY 321(3); PSY 359(3), 525(3); SOC 150(3), 309(3), 359(3)

D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

### Insurance and Risk Management

#### (Comprehensive)

#### Bachelor of Science

A. General Education Requirements - see “Academic Programs and Requirements” section of catalog

B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog

C. Major Requirements (31-32 hours)

1. FGB 384(3), 485(3); QBA 337(3); RIL 211(3); 335(2) or 533(3); 266(3), 312(3), 313(3), 415(3) or 538(3)

2. Complete five additional hours from the following: RIL 314(3), 367(3), 397(1-6), 415(3)\*; 538(3)\*; FGB 381(3); ACC 321(3)

\*Students may apply only one of the two courses toward the five hour requirement.

D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

## Minors

### Finance

#### Bachelor of Applied Science

#### Bachelor of Arts

#### Bachelor of Science

A. FGB 380(3), 384(3), 485(3)

B. Complete six additional hours from the following: FGB 381(3), 390(3), 480(3), 484(3), 487(3), 510(3), 584(3), or RIL 211(3)

## General Business

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

- A. ACC 201 (3)\*, 211 (3)\*; FGB 135 (3); RIL 231 (3); CIS/CSC 101 (2)\*\*; CIS 201 (2)
- B. Complete six additional hours from the following: FGB 380 (3); RIL 211 (3), 266 (3), 332 (1), 335 (2); MKT 150 (3), 350 (3), 355 (3); MGT 286 (3), 320 (3), 340 (3), 341 (3), 486 (3); QBA 237 (3)
- \*ACC 206 (3) may substitute for ACC 201 and 211.  
\*\*May be waived by proficiency exam.

## Insurance

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

- A. RIL 211 (3), 312 (3), 313 (3); FGB 135 or 381 (3)
- B. Complete six additional hours from the following: RIL 266 (3), 314 (3), 397 (1-6), 415 (3), 538 (3); FGB 381 (3), 485 (3); MKT 350 (3); Statistics\*\*
- \*\*Students interested in actuary programs may select six hours of mathematics and/or statistics with permission of Finance and General Business and Mathematics department heads.

## Legal Studies

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

- A. RIL 231 (3), 332 (1), 335 (2) or 533 (3), 341 (3)
- B. Complete 12 additional hours from the following: RIL 211 (3), 314 (3), 368 (3), 531 (3), 537 (3), 538 (3), 539 (3); FGB 596 (1-3); ACC 321 (3), 521 (3); PHI 340 (3); PLS 419 (3), 515 (3), 517 (3), 551 (3); PSY 320 (3); AGB 314 (3); SFR 581 (2)
- \* Students must select a minimum of three hours outside the College of Business Administration.

## Real Estate

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

- A. RIL 266 (3), 367 (3), 368 (3), 369 (3)
- B. Complete seven additional hours from the following: AGB 354 (2); AGH 333 (3); ECO 450 (3); FGB 496 (1-2), 596 (1-3); GRY 322 (3); HID 140 (3), 241 (3); IDM 121 (3), 122 (3), 221 (3), 320 (3); MKT 352 (3); PLN 271 (3), 471 (3); RIL 211 (3) or 313 (3)

## Actuarial Science

Students may pursue a career as an actuary by choosing a major and minor in related areas and selecting appropriate electives. Students interested in actuarial science typically major in mathematics and minor in insurance. Help in preparing for the early actuarial exams is available through the mathematics department. For more information, contact the Mathematics Department or the Finance and General Business Department.

## Graduate Program

### Accelerated Master of Business Administration degree

Eligible undergraduate students majoring in the College of Business Administration may apply for preliminary acceptance into the Master of Business Administration degree program during the second semester of their junior year after admission requirements for the accelerated masters program have been satisfied. If approved, up to six hours of

500-level or 600-level COBA courses taken in the senior year may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the MBA program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Finance and General Business Courses

### FGB 135 Introduction to Business. 3(3-0) F,S.

A survey of business which includes an evaluation of the social and economic environment in which it operates, followed by a look at business organization, management, finance, accounting, production, marketing, insurance, law, and data processing. Designed to serve three groups of students—those majoring in other departments who would like to develop a broad understanding of business through a single course; those who are undecided about a major and would like to explore business as a possibility; and those freshmen planning a major in some area of business who would like a broad understanding of business in order to make a specific selection of their major. A declared major in the College of Business Administration who has accumulated more than 30 semester hours of credit at the time of enrollment in the course will not receive credit for the course.

### FGB 200 Topics in General Business. 1-3, D.

A variable content course with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. Examples are: Personal Budgeting, Residential Home Construction, Insurance for the Family, Personal Credit Management, and Business Ethics. May be repeated to a total of 6 hours.

### FGB 303 History of Business. 2(2-0) D.

History of business; contributions of individuals and companies in evolution of modern business principles and practices.

### FGB 305 Service Learning in Business. 1 F,S.

Prerequisite: 30 hours and concurrent registration in a Finance and General Business department course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in business to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning credit may count toward graduation.

### FGB 307 Business in the Community. 2 F,S.

Study and application of business within the community. Topics include: planning and management of organizations from the viewpoint of education, community, and business; development of new business; organizational structure; interpersonal skills; funding and allocation resources of private, public and non-profit organizations. Allows for direct contact with local community leaders in education and business as well as opportunity to develop individual skills. Group dynamics and individual initiative are emphasized. May be available with FGB 305 Service Learning option and be repeated to a total of 6 hours.

### FGB 310 Fundraising Principles and Practices for Nonprofit Agencies. 3(3-0) D.

Prerequisite: undergraduate business majors must be admitted to COBA. Comprehensive study of various funding sources for not-for-profit organizations. Explores relationships with umbrella organiza-



tions, techniques of fundraising, government funding, grantsmanship, budget control and accountability.

**FGB 380 Financial Management.** 3(3-0) F,S.

Prerequisite: 54 hours including ACC 201 and ACC 211 and ECO 155 and ECO 165 and QBA 237; undergraduate business majors must be admitted to COBA. A study of the function of finance in the business enterprise. Methods, policies, and institutions involved in business financing.

**FGB 381 Personal Financial Planning.** 3(3-0) F,S.

Prerequisite: 54 hours or permission of the department head; undergraduate business majors must be admitted to COBA. A course that deals with most of the major personal financial planning problems that individuals and families encounter. Emphasis is placed on using the activities involved with personal financial planning as a framework for developing effective money management practices. Topics such as personal financial statements, budgeting, taxation, housing, credit, insurance, investments, and estate planning are covered during the course.

**FGB 384 (285) Introduction to Financial Institutions and Markets.** 3(3-0) F,S.

Prerequisite: ACC 201 and ACC 211 and ECO 155 and ECO 165; undergraduate business majors must be admitted to COBA. A study of the major types of financial institutions, with emphasis on their operating characteristics and their role within the domestic and global financial markets.

**FGB 386 (306) Financial Analysis.** 2(2-0) F,S.

Prerequisite: FGB 380. An introduction to the study of financial analysis, including a critical examination of the strengths and weaknesses of current financial reporting.

**FGB 390 Intermediate Financial Management.** 3(3-0) F,S.

Prerequisite: FGB 380; undergraduate business majors must be admitted to COBA. An in-depth study of corporate financial management concepts, including risk and return, valuation, financial analysis and forecasting, capital budgeting, cost of capital, capital structure, working capital, leasing, and global finance. The course utilizes electronic spreadsheets as a tool to enhance the quality of financial decisions.

**FGB 394 (399) Cooperative Education in Finance & General Business.** 1-3, D.

Prerequisite: acceptance into Cooperative Education Program and permission of department head; undergraduate business majors must be admitted to COBA. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. This is a variable content course that may be repeated to a total of 6 semester hours in Cooperative Education.

**FGB 395 New York Corporate/Financial Study I.** 3(3-0) D.

Prerequisite: FGB 380 and a GPA 3.20 and the recommendation of faculty and permission of the department head; undergraduate business majors must be admitted to COBA. A holistic study of business in which selected students study not only companies and institutions of New York but also the economic, political, international, historical, social, ethical, and cultural environment in which they function. Involves extensive research, written and oral reporting, and group interaction based upon trust, respect, and integrity. Followed by New York Corporate/Financial Study II.

**FGB 397 (300) Topics in Business.** 1-3, D.

Prerequisite: undergraduate business majors must be admitted to COBA. A variable content course with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. Examples include: Employment Discrimination Law, Tax Planning for Real Estate Investments, and special courses in Insurance. May be repeated to a total of 6 hours.

**FGB 480 (351) Financial Decision Making.** 3(3-0) F,S.

Prerequisite: FGB 390; undergraduate business majors must be admitted to COBA. Application of the concepts and techniques of finance to solve financial management problems faced by contemporary companies. The course emphasizes the development of financial decision-making skills through in-depth case analysis.

**FGB 484 (385) Management of Banking.** 3(3-0) S.

Prerequisite: FGB 380 and; either FGB 384 or ECO 305; undergraduate business majors must be admitted to COBA. A study of the management problems encountered in banking. The emphasis is upon the application of analysis and problem solving techniques to the solution of realistic problems and opportunities of individual banking institutions. The case study method is an integral learning technique.

**FGB 485 (585) Investments.** 3(3-0) F,S.

Prerequisite: FGB 380; undergraduate business majors must be admitted to COBA. A survey of investment principles, investment environments, security valuation, and financial markets.

**FGB 487 (587) Security Analysis and Portfolio Management.** 3(3-0) F,S.

Prerequisite: FGB 485; undergraduate business majors must be admitted to COBA. An in-depth study of security analysis, portfolio theory and management, investment strategy, and performance evaluation.

**FGB 494 (499) Internship in Finance.** 1-5, F,S.

Prerequisite: 80 hours, academic preparation in the field of internship, and permission of department head; undergraduate business majors must be admitted to COBA. A variable content course. Internships which are identified by title in the schedule of classes include Banking and Financial Institutions, Insurance, and Real Estate. Opportunity to obtain practical understanding through work experience with a cooperating bank or financial institution, insurance company or real estate firm. Employment and outline of study must be company approved prior to enrollment. May be repeated to a total of 5 hours.

**FGB 495 New York Corporate/Financial Study II.** 3(3-0) D.

Prerequisite: FGB 395 and permission of the department head; undergraduate business majors must be admitted to COBA. A continuation of New York Corporate/Financial Study I with 10 days in the Financial Capital of the World interacting with executives from companies and institutions which may include AT&T, Pfizer, Merrill Lynch, Consolidated Edison, American Insurance Group (AIG), Metropolitan Life, New York Stock Exchange, Federal Reserve Bank, the Commodities Exchange, and the Conference Board. Cultural experiences in New York City include the Statue of Liberty, United Nations, science museums, Empire State Building, St. Patrick's Cathedral, Trinity Church, Abyssinian Baptist Church, Central Park, Franklin and Eleanor Roosevelt's home and museum, Culinary Institute of America, West Point, Theodore Roosevelt's home (Sagamore Hill) in Oyster Bay, and the Metropolitan Opera.

**FGB 496 (408) Readings in Business Administration—Finance.** 1-2, D.

Prerequisite: permission of department head; undergraduate business majors must be admitted to COBA. Planned readings designed to intensify and supplement the area of finance.

**FGB 500 Managerial Finance.** 3(3-0) F,S.

Prerequisite: ACC 500 and ECO 500, or equivalent, and permission of a director of a COBA Graduate Program. Comprehensive study of the finance function in the business enterprise, including financial analysis-planning-forecasting, capital budgeting, leasing, working capital management, capital structure, dividend policy, and multinational finance. Designed for graduate students who have not had an undergraduate course in financial management in the last five years. This course will not be counted in the hours required for a COBA undergraduate or graduate degree.

**FGB 510 E-Business: Principles and Practices.** 3(3-0) F,S.

Prerequisite: 54 hours or permission of department head; undergraduate business majors must be admitted to COBA. (Students must have daily access to the Internet to enroll in this class.) A study of the basic principles of e-business from an applied, best practices point of view. Topics include the history and development of e-business, an overview of business-to-consumer (B2C) and business-to-business (B2B) e-business, the essential elements of online stores, payment methods, basic technological issues, competing globally on the web, building customer confidence, online security, legal issues, web site personaliza-



tion, promotion, and customer service, competing as a small business on the web, and the future of e-business. A significant amount of time will be devoted to reviewing and analyzing existing e-business sites.

**FGB 584 International Financial Management.** 3(3-0) F,S.

Prerequisite: FGB 380 or 500 or equivalent; undergraduate business majors must be admitted to COBA. This course is designed to survey how the key concepts of business finance can be applied in the context of a multinational firm. Topics include: the nature and functioning of the foreign exchange market, parity conditions, foreign exchange risk management, and international investment and financing decisions.

**FGB 596 (500) Research Issues and Problems: Finance and General Business.** 1-3, D.

Prerequisite: 60 hours and permission of the department head; undergraduate business majors must be admitted to COBA. Research issues and problems growing from special areas of a student's interest which may require additional depth or breadth of study. Student's proposal and outline of study must be approved prior to enrolling. May be repeated to a total of 6 hours.

**FGB 599 Independent Study for CFA Level I Exam.** 3, S.

Prerequisite: permission of the instructor. The professor and student will devise a study plan, based upon the CFA Institute's Common Body of Knowledge, that will best-prepare the student to pass the CFA Level I Exam in June of the current year.

*The following courses are open only to graduate students.*

**FGB 680 (550) Advanced Financial Management.** 3(3-0) F, S.

Prerequisite: FGB 500 or equivalent and ACC 611 or equivalent. An advanced study of the theory and practice of corporate financial management, including financial analysis and forecasting, working capital, capital budgeting, cost of capital, capital structure, mergers and acquisitions, and valuation. The course utilizes cases to emphasize both theory and technology in supporting sound financial decision-making.

**FGB 683 (553) Seminar in Finance.** 3(3-0) D.

Prerequisite: 15 graduate hours in business administration and economics including FGB 680 and permission of the coordinator of graduate studies. Critical evaluation and interpretation of research and literature in finance.

**FGB 684 (583) Management of Financial Institutions.** 3(3-0) F.

Prerequisite: FGB 380 or FGB 500 or equivalent. A study of the theory and practice of financial management of depository and nondepository institutions with emphasis upon asset and liability management techniques. The use of money and credit market mechanisms to achieve strategic financial objectives is stressed. Management implications of current developments in the interaction between institutions and markets are discussed.

**FGB 685 Investment Management.** 3(3-0) F,S.

Prerequisite: FGB 680. A study of investment theory and practice. Topics include portfolio theory, equilibrium in capital markets, equity and fixed income security analysis, derivatives (options, futures, swaps), portfolio management and strategies.

**FGB 687 Derivative Markets.** 3(3-0) S.

Prerequisite: FGB 680. A study of the fundamentals, pricing, and trading strategies of options, and futures contracts. Emphasis is placed on topics such as commodity futures, interest rate futures, stock index futures, foreign exchange futures, and futures options, and how these can be used for hedging and speculative purposes.

**FGB 694 Internship: Finance.** 3(3-0) F,S.

Prerequisite: permission of the director of the appropriate graduate program and department head. In consultation with the coordinating professor, the student is engaged in on-the-job experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

**FGB 696 Independent Study: Finance.** 1-3, F,S.

Prerequisite: permission of advisor. In consultation with the advisor, student selects for intensive study a specific area of concern related to the student's program with emphasis on research.

## Real Estate, Insurance, and Law Courses

**RIL 211 Insurance.** 3(3-0) F,S.

Prerequisite: 24 hours or permission of department head. Principles and functions of property, casualty and life insurance with applications in both personal and business situations.

**RIL 231 Legal Environment of Business.** 3(3-0) F,S.

Prerequisite: 24 hours. Ethical and legal issues in the domestic and international regulatory environment of business. Foundations of legal reasoning, case analysis, legal dispute resolution and reporting, court systems and sources of law. Substantive areas of torts, contracts, sales, products liability and consumer rights and remedies. Contemporary legal issues explored in such areas as: regulation of environmental practices, deceptive advertising, debt collection, employment, anti-trust and computer law.

**RIL 266 Principles of Real Estate.** 3(3-0) F,S.

Prerequisite: 24 hours or permission of department head. An introduction to the study of real estate. Topics covered include legal aspects of real property, real estate financing, appraisal, brokerage, land-use control, property management, and investing in real estate.

**RIL 312 Life Insurance.** 3(3-0) S.

Prerequisite: RIL 211 or permission of department head; undergraduate business majors must be admitted to COBA. Nature and types of life insurance and annuity contracts insuring human life values for business and personal purposes; principles underlying the calculation of life insurance and annuity premiums, reserves, nonforfeiture values and dividends; introduction of group life insurance, pensions, health, social insurance, settlement options, taxation as related to life insurance programming.

**RIL 313 Property and Liability Insurance.** 3(3-0) F.

Prerequisite: RIL 211; undergraduate business majors must be admitted to COBA. Analysis and application of risk and insurance principles to direct and consequential losses in fire, marine, inland marine, multiple-line coverages, liability, workers' compensation, fidelity, surety, and crime perils.

**RIL 314 Employee Benefits and Social Insurance.** 3(3-0) S.

Prerequisite: 30 hours or permission of department head; undergraduate business majors must be admitted to COBA. The study of group life and health insurance, retirement programs, Social Security, and other social insurance programs as devices to mitigate economic losses from death, disability, medical costs, retirement, and unemployment in relation to personal and business risk problems.

**RIL 332 (232) Debtor and Creditor Rights and Remedies.** 1(1-0) F,S.

Prerequisite: RIL 231 and undergraduate business major must be admitted to COBA. Legal aspects of financial transactions. The rules of law governing financial transactions in today's business and personal affairs. Topical areas include commercial paper, secured transactions, and bankruptcy.

**RIL 335 (235) Business Enterprises, Rights/Liabilities.** 2(2-0) F,S.

Prerequisite: RIL 231 and undergraduate business majors must be admitted to COBA. Legal alternatives in the structuring of the business enterprise and its relationship with employees. Topical areas include personal property, bailments, real property, leaseholds, intellectual property rights, franchises, sole proprietorships, partnerships, corporations, LLC's, agency and employment law. Cannot receive credit for both RIL 335 and RIL 533.

**RIL 341 Legal Research and Writing.** 3(3-0) F.

Prerequisite: RIL 231 or equivalent; undergraduate business majors must be admitted to COBA. Use of primary and secondary legal sources and indexes are examined, including state and federal statutes, government regulations, cases, Shepard's, Missouri Practice series, law reviews and legal encyclopedias; types of legal writing are introduced; research techniques are applied to case analysis and legal writing.

**RIL 367 Principles of Real Estate Appraisal.** 3(3-0) F.

Prerequisite: RIL 266; undergraduate business majors must be admitted to COBA. An introduction to the study of real estate appraisal. Topics covered include data collection and analysis, neighborhood and regional analysis, land and building function and description, highest and best use analysis, land valuation and improved property valuation.

**RIL 368 Real Estate Law.** 3(3-0) S.

Prerequisite: RIL 266 or permission of department head; undergraduate business majors must be admitted to COBA. Rights and interests in land; evidence of title; co-ownership; contracts for sale of land; deeds; wills and descent; mortgages; liens; landlord and tenant; restrictions; zoning; brokers.

**RIL 369 Real Estate Development.** 3(3-0) S.

Prerequisite: RIL 266 or permission of department head; undergraduate business majors must be admitted to COBA. This course introduces the development process through its four major phases: concept, land acquisition, construction, and sales. Topics covered include project selection, debt and equity funding (obtainable from individual, institutional, and governmental sources), regulatory approval, environmental impact, and marketing.

**RIL 397 (301) Insurance Topics.** 1-3, D.

Prerequisite: undergraduate business majors must be admitted to COBA. Students taking course as independent study, readings, or professional designation courses must obtain department head approval prior to enrollment. A variable content course to intensify and supplement the study of insurance, designed for students desiring to develop toward professional competence in property/casualty, risk management, life/health, employee benefits, financial services, and insurance-related areas. Course design may include independent study, readings, professional designation courses, and/or traditional classroom work. Course may be repeated for a maximum of 6 hours.

**RIL 415 Risk Management.** 3(3-0) S.

Prerequisite: 80 hours including RIL 211; undergraduate business majors must be admitted to COBA. Identifying and analyzing the loss exposures. Developing alternative techniques for treating each exposure with emphasis on risk control and risk financing.

**RIL 500 Legal Environment for Business Managers.** 3(3-0) D.

Prerequisite: permission of a director of a COBA Graduate Program. Exploration of contemporary legal and ethical issues encountered by business managers including issues related to torts, contracts and U.C.C. sales, products liability, employment discrimination, debtor-creditor rights, environmental responsibility, intellectual property, ethics, and agency implications in various forms of business organizations. Legal dispute resolution mechanisms are also examined. This course is

intended for students entering the MBA program who have not satisfied equivalent course work in this area, and this course will not be counted in the hours required for a COBA undergraduate or graduate degree.

**RIL 531 Labor Law and Employment Discrimination.** 3(3-0) F.

Prerequisite: RIL 231 or RIL 500 or equivalent; undergraduate business majors must be admitted to COBA. Legal, regulatory, and ethical issues related to employer-employee relationship, including employment-at-will doctrine, discrimination and union contracts.

**RIL 533 Legal Environment of Business Organizations for Professionals.** 3(3-0) S.

Prerequisite: RIL 231 and 90 hours; undergraduate business majors must be admitted to COBA. Agency and employment responsibilities and liabilities facing new and traditional forms of business organizations are compared, along with selected tax and security regulation issues. Personal and real property concepts are examined, along with environmental exposure issues. Selected contract and UCC concepts are reviewed. Issue recognition, problem analysis approach and testing mechanisms are especially appropriate for individuals taking the CPA or other professional exams. Cannot receive credit for both RIL 533 and RIL 335.

**RIL 537 Environmental Regulation.** 3(3-0) S.

Prerequisite: undergraduate business majors must be admitted to COBA. Laws and government environmental regulation of air, water and soil quality, energy resources, solid and toxic waste disposal, storage tanks, toxic torts, labeling of toxic substances, recycling; ethical, public policy and international implications such regulations pose for business practices, natural resource utilization, health quality and biodiversity.

**RIL 538 Introduction to Estate Planning.** 3(3-0) F.

Prerequisite: 80 hours or permission of department head; undergraduate business majors must be admitted to COBA. Estate planning process; fundamentals of intestate distribution, wills, trusts, gifts, life insurance; taxes incidental to an estate; administration of estates and trusts; analysis and selection of devices for lifetime and testamentary transfers of property.

**RIL 539 Legal Regulation of International Commerce.** 3(3-0) D.

Prerequisite: RIL 231 or RIL 500 or equivalent; undergraduate business majors must be admitted to COBA. Legal and ethical issues associated with doing business in a global economy. Difference in approach to contracting and merchandising; product standards, protection and liability; trade barriers and regulation of business practices.

***The following courses are open only to graduate students.*****RIL 630 Seminar: Contemporary Legal Issues.** 3(3-0) D.

Prerequisite: RIL 231 or equivalent. In-depth study of selected contemporary legal issues and their impact on the environment of business. Exploration of legal resources relevant to the topics.

**RIL 633 Legal Regulation of Competition and Monopoly.** 3(3-0) D.

Prerequisite: RIL 231 and RIL 335 or permission of department head. Evolution of legal theory regarding governmental regulation of business. The judicial application of laws relating to anti-trust, price discrimination, entry regulation, rate making.

## Department of Industrial Management

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Email: IndMgt@missouristate.edu

**Department Head:** Associate Professor Shawn D. Strong, Ph.D.

**Professor:** Clifford L. House, Ed.D.

**Associate Professors:** William H. Drake, Ph.D, Steven W. McCrary, Ph.D.

**Assistant Professors:** R. Neal Callahan, Ph.D.; Rita S. Hawkins, M.S.; John H. Reposa, Jr.; Rathel R. Smith, M.S., CPIM

**Emeritus Professors:** Robert B. Beach, Ed.D.; Gary O. Bennett, M.S.; Lawrence C. Drake, Ed.D.; Armin F. Gimbel, Ed.D.; Keith L. Johnston, Ed.D.; Yuan H. Liu, Ph.D.; Olan C. Oatman, M.Ed.; Orin R. Robinson, Ed.D.; Jerry D. Routh, Ed.D.; Eugene G. Sherrell, Ed.D.; Houston Taylor, Ed.D.

**Accreditation:** National Association of Industrial Technology (NAIT) – Industrial Management, B.S.

### Majors

#### Construction Management (Comprehensive) Bachelor of Science

- A. Admission Requirements – a “C” grade or better in MTH 138 or one of the following: MTH 181, 261, 287
- B. General Education Requirements - see “Academic Programs and Requirements” section of catalog, and the following specific general education requirements:
1. Areas of Inquiry/Self Understanding: ECO 155(3); PSY 121(3); and PHI 115(3)
  2. Writing II: ENG 321(3) is recommended
  3. Math: choose from MTH 138(5), 261(5), 287(3)  
NOTE: completion of MTH 135(3) and 181(3) is equivalent to MTH 138(5)
  4. Natural World: choose either PHY 123(4) or 203(5), and one course from the following CHM 105(5), 106(4), 107(4), 160(4); GLG 110(4), 171(4)  
NOTE: GLG 171 is recommended
- C. Major Requirements (75 hours)
1. IDM 121(3), 122(3), 221(3), 267(3); 318(3) or 326(3); IDM 320(3), 321(3), 322(3), 323(3), 324(3), 359(3), 424(3), 425(3), 426(3), 427(3), 455(3); 453(3) or 551(3); IDM 494(1), 499(2); IDM 456(3) or MGT 340(3); ACC 201(3); QBA 237(3); RIL 231(3)
  2. Complete 9 hours from: CIS 201(2); ECO 165(3); FGB 135(3), 380(3); ACC 211(3), 311(3); RIL 266(3), 332(1), 335(2), 367(3), 368(3), 369(3), 531(3), 533(3); MGT 343(3), 345(3), 364(3), 368(3), 465(3); MKT 350(3), 355(3), 430(3), 440(3), 450(3); QBA 337(3); IDM 120(3); approved IDM technical elective (3)
  3. If MTH 135(3) and 181(3) are substituted for MTH 138(5), students must also take either QBA 337(3) or CIS 201(2)
  4. No more than 31 hours of coursework from the Business Unit will be allowed - CIS 101, QBA and ECO courses do not apply to the 31 hours
- D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

#### Industrial Management (Comprehensive) Bachelor of Science

- A. Admission Requirements – a “C” grade or better in MTH 138 or one of the following MTH 181, 261, 287
- B. General Education Requirements - see “Academic Programs and Requirements” section of catalog, and the following specific general education requirements:
1. Areas of Inquiry/Self Understanding: ECO 155(3); PSY 121(3); and PHI 115(3)
  2. Writing II: ENG 321(3) is recommended
  3. Math: choose from MTH 138(5), 261(5), 287(3)

NOTE: completion of MTH 135(3) and 181(3) is equivalent to MTH 138(5)

4. Natural World: choose either PHY 123(4) or 203(5), and one course from the following CHM 105(5), 106(4), 107(4), 160(4);  
NOTE: CHM 105 or 160 is required for Food Processing option
- C. Major Requirements (75-77 hours)
1. IDM 110(3), 130(3), 267(3), 331(3), 347(3), 350(3), 354(3), 355(3), 359(3), 365(3), 380(3), 438(3), 455(3), 494(1), 499(2), 551(3); IDM 456(3) or MGT 340(3); ACC 201(3); QBA 237(3); RIL 231(3) or MKT 350(3)  
NOTE: Food Processing students may substitute AGB 334(3) for MKT 350(3)
  2. Complete one of the following options (12-13 hours)
    - a. **CAD Management** – IDM 311(3), 411(3), CIS 260(3), 270(3)
    - b. **Distribution** – IDM 459(3), MKT 430(3), 440(3), 450(3)
    - c. **Food Processing**
      1. BIO 210(3)
      2. Complete one of the following:
        - a. AGS 101(4) and choose 6 hours from AGS 342(3); AGS 346(3) or AGS 451(3)
        - b. AGS 105(3) and choose 6 hours from AGH 343(3), 393(3); FRS 401(3), 411(3)
      - d. **Production** – IDM 437(3), MGT 343(3), 364(3), 368(3)
      - e. **Quality Control** – IDM 437(3), 459(3), 550(3), QBA 337(3)
    3. Complete 6-7 hours not used toward option requirements: IDM 311(3), 411(3), 437(3), 459(3), 510(3), 550(3), AGB 144(3), BIO 102(4)-recommended for Food Processing students, MKT 460(3)
    4. No more than 31 hours of coursework from the Business Unit will be allowed - CIS 101, QBA and ECO courses do not apply to the 31 hours

D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

#### Technology Management Bachelor of Applied Science

- A. General Education Requirements - see “Academic Programs and Requirements” section of catalog
- B. Major Requirements
1. Associate of Science or Associate of Applied Science degree from an accredited institution. Contact the department for details.
  2. 37 hours of advisor approved upper-division courses, 12 hours of which must be from the Department of Industrial Management to include IDM 359(3) and IDM 458(3)
- C. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

## Minor

### Industrial Management Bachelor of Applied Science Bachelor of Arts Bachelor of Science

- A. IDM 120(3)
- B. Complete any 12 hours from the following to bring the total to at least 15 hours (course groupings are to indicate possible areas of emphasis):
1. Construction Technology: IDM 121(3), 122(3), 211(3), 221(3), 455(3).
  2. Manufacturing Systems Technology: IDM 110(3), 130(3), 311(3), 331(3), 530(3)
  3. Quality: IDM 110(3), 350(3), 437(3), 550(3); QBA 237(3)
  4. Technology Management: IDM 110(3), 354(3), 355(3), 359(3), 455(3), 456(3), 459(3), 530(3), 551(3)
  5. Project Management: IDM 110(3), 359(3), 456(3), 545(3), 551(3)
  6. Design Drafting: IDM 110(3), 130(3), 211(3), 311(3), 411(3)

## University Certificate – Undergraduate

### Manufacturing Management

The certificate in Manufacturing Management provides a 12 hour educational experience with direct application to the needs of individuals currently employed in manufacturing related fields seeking professional growth and advancement within their profession.

**Entrance Criteria:** To be considered for this certificate program, a student must have completed a college algebra course, a basic drafting course, and have prior manufacturing related technical education and/or experience. This requirement can be satisfied by completion of: MTH 135, IDM 110, IDM 130, and IDM 331; an appropriate technical degree/courses; or three years of related work experience. An admission interview with a program mentor is also required.

**Required Courses:** IDM 350(3), 354(3), 355(3), and 359(3)

**GPA Requirement:** Attain a grade point average of at least 2.00 on all certificate coursework at Missouri State

## Graduate Programs

The Master of Science in Administrative Studies offers an option in Project Management. See the Graduate Catalog for details.

## University Certificate – Graduate

Graduate level certificate programs are available in Project Management and in Technology Management. See the Graduate Catalog for details.

## Industrial Management Courses

**IDM 110 (TEC) Industrial Design with Computer Applications.** 3(2-2) F.

Introduction to software tools (computer aided design drafting, computer mathematics, word processing, spread sheets) with application to industry practice. Principles of design including basic orthographic drafting, sketching theory and conventions, auxiliaries, sections and dimensioning. A semester long group design project is an integral part of the course.

**IDM 120 (TEC) Introduction to Industrial Management.** 3(3-0) D. Provides students with a conceptual framework for understanding the social and economic environment of contemporary industry. Introduces the elements common to all industries including: management, finance, communication, research and development, physical environment, relationships, materials, processes, energy, purchasing, produc-

tion, and marketing. Designed to serve three groups of students—those majoring in other departments who would like to develop a broad understanding of industry through a single course; those seeking an Industrial Management minor; and those who are undecided about a major and would like to explore industrial management as a possibility.

**IDM 121 (TEC 390) Construction Principles and Practice.** 3(2-2) F.

An introductory course which investigates the principles and practices associated with common building structural systems—includes foundations, wood light frame construction, heavy timber, masonry, steel, sitecast concrete, and precast concrete. Course will focus on the development of a fundamental knowledge base for managing construction projects through case study and hands-on experience. Lab activities may include job site visits, Habitat for Humanity, and concrete field testing.

**IDM 122 (TEC) Construction Materials and Methods.** 3(2-2) S. An introductory course which provides an overview of the materials and methods used in building finish systems from floor to roof and from exterior cladding to interior finishes. Includes roofing, glass and glazing, cladding systems, windows and doors, interior finishes, ceilings, and floors. This course will focus on development of a fundamental knowledge base through case-study, detailed product analysis, and hands-on experience. Lab activities may include job site visits and work with Habitat for Humanity or other service agencies.

**IDM 130 (TEC) Manufacturing Materials and Processes I.** 3(2-2) S.

An introduction to the fundamental properties of materials commonly used in manufacturing. Topics covered include metals, plastics, composites, ceramics, and the use of these materials in manufacturing processes including metal casting.

**IDM 211 (TEC 310) Residential Architectural Drafting.** 3(2-2) D. Prerequisite: IDM 121. The study of architectural working drawings. Principles of computer aided design drafting including architectural drafting standards and building code requirements. Basic orthographic projection, sketching theory and conventions, auxiliaries, sections and dimensioning. A semester long design project is an integral part of the course.

**IDM 221 (TEC 190) Construction Drawings.** 3(2-2) F,S.

An introduction to working drawings and specifications commonly encountered in residential and commercial construction. Designed to develop the student's understanding of and ability to interpret construction drawings and specifications. Principles of building design including basic orthographic drafting, sketching theory and conventions, auxiliaries, sections and dimensioning. This course will also enhance student's ability to utilize CAD to access, modify and produce working drawings.

**IDM 267 (TEC) Statics.** 3(3-0) F.

Prerequisite: PHY 123. A study of the mechanics of forces associated with rigid bodies in equilibrium. Development of problem solving skills.

**IDM 296 (TEC) Readings in Technology.** 1-3, F,S.

Prerequisite: permission of department head. Directed readings for individuals requiring additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 6 hours.

**IDM 297 (TEC 262) Topics in Technology.** 1-3, D.

A variable content course with topics that can change from semester to semester depending on faculty and student interests. Consult the semester class schedule for the current offering under this number. May be repeated to a total of 6 hours.

**IDM 299 (TEC) Cooperative Education in Technology.** 1-3, F,S,Su.

Prerequisite: acceptance into Cooperative Education Program and department approval. The opportunity to earn academic credit in a planned learning process that integrates supervised work experience and education in an approved industrial setting. May be repeated to a total of 6 hours.

**IDM 311 Engineering Graphics.** 3(2-2) S.

Prerequisite: IDM 110 and IDM 130 and undergraduate industrial management majors must be admitted to program. The application of DFMA (Design for Manufacturability and Assembly) to produce part and

assembly models utilizing feature-based 3D solid modeling software. Topics include: design cycle, working drawings, blueprint reading, technical presentation, fit classifications, dimensioning per ANSI Y14.5M and geometric dimensioning and tolerancing.

**IDM 318 (TEC 410) Structural Design Principles.** 3(2-2) S.

Prerequisite: IDM 267 and undergraduate industrial management majors must be admitted to program. The design of simple structural members used in construction. Topics include applications in concrete, steel, soils and wood, form design and other temporary structures used in construction.

**IDM 320 Construction Contracts, Specifications and Law.** 3(3-0) F.

Prerequisite: RIL 231 and undergraduate industrial management majors must be admitted to program. An introduction to basic construction contracts, specifications, and law. Discussion of the application of contract principles to construction contracts, together with a detail summary of specifications and other documents which form an essential part of construction contracts. Legal topics of special interest to construction professionals will also be discussed.

**IDM 321 (TEC 391) Mechanical Systems for Buildings.** 3(3-0) F.

Prerequisite: PHY 123 and undergraduate industrial management majors must be admitted to program. This course addresses the principles and practices of heating, ventilation, cooling, plumbing and fire protection systems used in residential, commercial and industrial applications. Emphasis is placed on coordination of design, applicable codes, estimating, installation, and problem solving.

**IDM 322 (TEC 280) Electrical Systems for Buildings.** 3(3-0) S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. This course addresses the principles and practices of electrical and lighting systems used in residential, commercial and industrial applications. Emphasis is placed on coordination of the NEC, design, estimating, and installation of various systems in the building process.

**IDM 323 (TEC 393) Construction Surveying.** 3(2-2) S.

Prerequisite: IDM 122 and MTH 138 or MTH 181, 53 hours and undergraduate industrial management majors must be admitted to program. Construction field engineering activities to include surveying, site layout and dimensional control. Interpretation of plot books, site plans, and topographic maps is also included. This course will also enhance student's ability to utilize CAD to modify and produce working drawings.

**IDM 324 (TEC) Construction Cost Estimating I.** 3(3-0) S.

Prerequisite: IDM 122 and IDM 221 and undergraduate industrial management majors must be admitted to program. Estimating the cost of projects to be constructed. Topics include: development of feasibility, conceptual, lump sum and unit cost estimates. Estimates of production rates, materials, equipment and labor costs. Applications of profit, indirect and overhead cost.

**IDM 326 Construction Soils and Foundations.** 3(3-0) D.

Prerequisite: IDM 267 and undergraduate industrial management majors must be admitted to program. An overview of the nature of soil materials and their engineering properties is coupled with simple, direct examples of analysis to show how construction methods and operations may be controlled or influenced. Introduces updated information developed in research and practices for applications to construction operations.

**IDM 331 (131) Manufacturing Materials and Processes II.** 3(2-2) F.

Prerequisite: IDM 130 is recommended and undergraduate industrial management majors must be admitted to program. A study of the tools, materials, and performance characteristics associated with common manufacturing processes. Topics covered include machining, bulk deformation, plastics molding, joining, and the economic analysis associated with these processes.

**IDM 347 (TEC) Industrial Electronics.** 3(2-2) S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. Basic theory and application of electronics to controls for industrial equipment and data processing.

**IDM 350 (TEC) Management and Control of Quality.** 3(3-0) F,S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. QBA 237 is recommended. An

introduction to quality concepts in manufacturing and service systems. Includes case studies representing measurement and assurance in a variety of industries.

**IDM 354 (TEC) Plant Layout and Work Design.** 3(3-0) F.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. A study of facilities design and material handling systems and their integration into a manufacturing unit to achieve the most effective, economical, and safe relationships between the movement of labor, material, and equipment as they and the product flow from receiving through fabrication to the shipment of the finished product. Computer simulation and modeling concepts for plant layout and material flow will be included.

**IDM 355 (TEC) Production Planning and Control.** 3(3-0) S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. Production planning and control activities in the various manufacturing environments. Focus will be placed on the necessary prerequisites for an effective shop floor control system including computer simulation and modeling. Assemble-to-order, engineer-to-order, make-to-order, and make-to-stock are emphasized from the perspectives of volume and variety of output of manufacturing systems.

**IDM 359 (TEC) Principles of Project Management.** 3(3-0) F,S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. A study of project management including the planning, organizing, directing, controlling, and coordinating functions used to achieve productivity enhancements in an industrial environment. Includes project management case studies from a variety of industries.

**IDM 361 (TEC) Service Learning in Technology.** 1, F,S.

Prerequisite: 30 hours and concurrent registration in an IDM course designated as a service learning offering. This service component of an existing course incorporates community service with classroom instruction in industrial management to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of a participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. No more than one hour of service learning may count toward graduation.

**IDM 365 (TEC) Computer Integrated Manufacturing I.** 3(2-2) F.

Prerequisite: IDM 311 and IDM 331. A study of the design, integration, and information flow, associated with automated manufacturing systems. Topics covered include CAD/CAM, robotics, and PLC applications.

**IDM 380 (TEC) Fluid Power Systems.** 3(2-2) S.

Prerequisite: PHY 123 and undergraduate industrial management majors must be admitted to program. Properties of fluids. Pump and motor efficiencies. Analysis and assembly of fluid power systems and experimental investigation of appropriate control systems.

**IDM 396 (TEC) Readings in Technology.** 1-3, F,S.

Prerequisite: 53 hours and permission of department head. Directed readings for individuals requiring additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 6 hours.

**IDM 397 (TEC 360) Topics in Technology.** 1-3, D.

A variable content course with topics that can change from semester to semester depending on faculty and student interests. Consult the semester class schedule for the current offering under this number. May be repeated for a total of 6 hours.

**IDM 399 (TEC 392) Cooperative Education in Industry.** 1-3, F,S,Su.

Prerequisite: 60 hours, acceptance into Cooperative Education Program, and department permission. The opportunity to earn academic credit in a planned learning process that integrates supervised work experience and education in an approved industrial setting. May be repeated to a total of 6 hours.

**IDM 411 (TEC) Mechanical Design and Analysis.** 3(2-2) D.

Prerequisite: IDM 311. A study of the role of the technologist in the decision making process which design professionals use to formulate plans for the physical realization of components and systems. Topics include design phases, codes, standards, stress analysis, failure criteria, design for fatigue strength, and the design of mechanical systems.

**IDM 424 Construction Cost Estimating II.** 3(2-2) F.

Prerequisite: IDM 324, concurrent enrollment in IDM 425 is recommended. A project oriented course where a bid is developed for a local job. Includes site visits, quantity take-off, computerized estimates, development of bidding strategy and the presentation of the bid.

**IDM 425 (TEC 325) Construction Planning and Scheduling.** 3(2-2) F.

Prerequisite: IDM 324 and recommend concurrent enrollment in IDM 424. Introduction to the basic principles, techniques, and practices used by contractors to plan, schedule, and control costs on building construction projects. Extensive use of commercial scheduling software.

**IDM 426 (TEC 496) Construction Project Administration.** 3(3-0) F.

Prerequisite: IDM 320. A study of the legal and administrative aspects of construction projects. Includes use of documents, subcontracting, purchasing, changes, claims, payments, and closeout.

**IDM 427 (TEC) Construction Equipment Management.** 3(3-0) S.

Prerequisite: IDM 324. Study of the basic principles, practices, and techniques used in the construction industry for selecting and managing construction equipment. Focuses on understanding the time value of money, estimating equipment ownership and operating costs, selecting the proper equipment for specific construction tasks, and estimating equipment production.

**IDM 437 (TEC) Quality Control and Measurement.** 3(3-0) F.

Prerequisite: QBA 237 and undergraduate industrial management majors must be admitted to program. This course covers basic techniques of quality control and metrology. Topics covered include process capability, statistical process control, sampling, and measuring and gauging techniques.

**IDM 438 (TEC) Computer Integrated Manufacturing II.** 3(2-2) S.

Prerequisite: IDM 365. This course applies basic controls, electronics, and automation theory to design, plan, and implement a working automated manufacturing cell.

**IDM 453 (TEC 492) Construction Cost Management.** 3(3-0) S.

Prerequisite: ACC 201 and IDM 324. Introduction to financial and cost concepts used in the construction industry. Emphasizes the analysis and use of financial statements, job cost accounting systems, and cost control.

**IDM 454 Construction Safety Management.** 3(3-0) D.

Prerequisite: 53 semester hours and undergraduate industrial management majors must be admitted to program. Occupational safety and health standards and codes as they relate to the construction industry. Job-site safety assessment, safety program elements, accident costs and prevention, ethics and management practices. Cannot receive credit for both IDM 454 and IDM 455.

**IDM 455 (TEC 250) Industrial Safety Management.** 3(3-0) F,S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. Occupational safety and health standards and codes. Hazard recognition, accident costs, accident prevention, ethics and administration. Cannot receive credit for both IDM 454 and IDM 455.

**IDM 456 (TEC) Industrial Supervision.** 3(3-0) F,S.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. A study of the role of the supervisor and the management concepts and techniques that may be utilized to optimize the productivity of an industrial enterprise. Leadership and teambuilding roles of the supervisor.

**IDM 458 Technology Management.** 3(3-0) Su.

Prerequisite: IDM 359. Focuses on the strategic management of technology and innovation in organizations. Builds primarily on broad models

of technological evolution and organizational change. Students analyze crucial organizational innovation and technology issues and identify concrete managerial actions to address innovation and technology problems and opportunities. May be taught concurrently with IDM 640. Cannot receive credit for both IDM 458 and IDM 640.

**IDM 459 (TEC) Distribution Systems.** 3(3-0) D.

Prerequisite: 53 hours and undergraduate industrial management majors must be admitted to program. A study of the design of distribution systems and their interrelationships to manufacturing and the global marketplace. Engineering, producing, and shipping the product to the marketplace will be explored. Channels of distribution, forecasting techniques, and independent demand inventory models will be central topics.

**IDM 494 (TEC) Professional Internship.** 1, F,S,Su.

Prerequisite: 90 hours, approved internship and department permission. Recommend completion during the summer preceding the senior year. The integration of supervised work experience and education in an approved industrial setting. May also serve as the information gathering phase of the capstone project in which students demonstrate achievement of program objectives through solution of a problem provided by an industry sponsor.

**IDM 497 (TEC) Topics in Technology.** 1-3, D.

Prerequisite: departmental permission. A variable content course with topics that can change from semester to semester depending on faculty and student interests. Consult the semester class schedule for current offerings under this number. May be repeated to a total of 6 hours.

**IDM 499 (TEC) Senior Project.** 2, F,S.

Prerequisite: permission of department head. A capstone project in which students demonstrate attainment of program objectives through solution of a problem provided by an industry sponsor. Requires technical report and oral presentation. Evaluated by committee from faculty and industry. Team projects are permissible and encouraged.

**IDM 510 Product Design and Development.** 3(3-0) D.

Prerequisite: 80 hours or permission of department head; undergraduate majors in the industrial management department must be admitted to a program of study; IDM 359 or IDM 601. An overview of the product development process from concept generation to design for manufacturing and project management. The perspectives of marketing, design and manufacturing are blended into a single approach to product development. Provides students with an appreciation for the realities of industrial practice and for the complex and essential roles played by the various members of product development teams.

**IDM 530 (TEC) Advanced Manufacturing Technology.** 3(3-0) D.

Prerequisite: 80 hours or permission of department head; undergraduate industrial management majors must be admitted to the program. A study of current manufacturing systems including product development and production methods. Emphasis is placed on production planning and processes including computer-aided manufacturing and control, inspection, and quality assurance techniques.

**IDM 545 (TEC) Project Control Systems.** 3(3-0) Su.

Prerequisite: 80 hours or permission of department head; undergraduate industrial management majors must be admitted to the program. Advanced application of microcomputers with an emphasis on their use in project control.

**IDM 550 (TEC 450) Statistical Quality Control and Design of Experiments.** 3(3-0) D.

Prerequisite: QBA 237 or equivalent, 80 hours or permission of department head; and undergraduate industrial management majors must be admitted to the program. Topics include the practice of statistical techniques widely used in industry to improve quality, reduce costs, and optimize processes. Minimization of variability and basic approaches to statistically designed experiments are emphasized.

**IDM 551 (TEC 451) Cost Analysis for Industrial Management.** 3(3-0) S.

Prerequisite: 80 hours or permission of department head; and undergraduate industrial management majors must be admitted to the program. The use of engineering economic analysis as a decision making

tool in the context of project management. Topics include problems in equipment acquisition, replacement, and capital budgeting.

**IDM 596 (TEC) Readings in Industrial Management.** 1-3, F,S. Prerequisite: permission of department head. Directed readings for individuals requiring additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 6 hours.

**IDM 597 (TEC 560) Topics in Industrial Management.** 1-3, D. A variable content course with topics that depend on faculty and student interests. Consult the semester class schedule for the current offering under this number. May be repeated up to a total of 9 hours when content varies.

*The following courses are open only to graduate students.*

**IDM 601 (535) Project Management.** 3(3-0) F.

This course provides a comprehensive overview of project management. The culture, principles, and basic techniques of project management are addressed using the project lifecycle as the primary organizational guideline. The project management functions of planning, organizing, motivating and controlling with an emphasis on the application to business and technology are explained. Basic tools of project management such as work breakdown structure, scheduling, contracting, earned value analysis, and risk management are explained and demonstrated.

**IDM 610 Project Leadership.** 3(3-0) D.

A practical and relevant course that focuses on the people skills needed to manage a project successfully. Prepares students to handle project problems related to communication, motivation, performance, behavior, and crisis. Students analyze real life scenarios and develop solutions that are supported by the latest research to develop skills necessary for strong, effective project leadership.

**IDM 626 (TEC) Seminar in Technology Management.** 3(3-0) D. Prerequisite: 9 graduate hours. Presentation and discussion of professional or technical problems in the organization and management of technology oriented programs. Students are expected to demonstrate the ability to apply the knowledge and experience gained in their program of study to the critical evaluation and analysis of the theory, research and practice of technology management.

**IDM 640 Management of Innovation and Technology.** 3(3-0) D. Prerequisite: IDM 601. Focuses on the strategic management of technology and innovation in organizations. Builds primarily on broad models of technological evolution and organizational change. Students analyze crucial organizational innovation and technology issues and identify concrete managerial actions to address innovation and technology problems and opportunities. May be taught concurrently with IDM 458. Cannot receive credit for both IDM 458 and IDM 640.

**IDM 650 (TEC) Advanced Project Management.** 3(3-0) S.

Prerequisite: IDM 601 and one other Project Management certificate course. Builds upon the foundation of prerequisite courses by discussing advanced problems encountered in the discipline of project management in a seminar format. Practical examination of projects using the criteria of project excellence and project management maturity models. Students are expected to demonstrate the ability to apply the knowledge and experience gained in their program of study to the critical evaluation and analysis of the theory, research and practice of project management.

**IDM 660 (TEC) Special Investigations.** 1-5, D.

Prerequisite: permission of advisor. The student in consultation with the advisor selects for in-depth study an area determined by the interest and background of the students. Based on demand and timeliness of the subject a cluster study group may engage in a joint investigation. May be repeated to a total of 5 hours.

**IDM 692 (TEC) Graduate Internship.** 3(3-0) F,S,Su.

Prerequisite: permission of advisor. Educational experience in cooperation with student's full-time employer. Written, oral, and classroom assignments related to workplace improvement. May be repeated, but no more than 6 hours may be counted as credit toward a Master's degree.

**IDM 698 (TEC) Research.** 1-6, F,S,Su.

Prerequisite: permission of advisor. Supervised research in technology. May be repeated, but not more than 6 hours may be counted toward a Master's degree. Graded Pass/Not Pass only.

**IDM 699 (TEC) Thesis.** 1-3, F,S,Su.

Prerequisite: permission of the department head. Preparation of a thesis. May be repeated, but no more than 6 hours may be counted as credit toward a Master's degree. Graded Pass/Not Pass only.

## Department of Management

414 Glass Hall, Phone: 836-5415, FAX: 836-3004  
Email: Management@missouristate.edu

**Department Head:** Professor Barry L. Wisdom, Ph.D.

**Professors:** Yohannan T. Abraham, Ph.D.; Mona J. Casady, Ph.D.; D. Keith Denton, Ph.D.; Corinne M. Karuppan, Ph.D.; Robert O. Lunn, Ph.D.; Peter Richardson, Ph.D.; Elizabeth Rozell, Ph.D.; Steven L. Thomas, Ph.D.

**Associate Professors:** Karen L. Brown, D.B.A.; Mary K. Coulter, Ph.D.; Patricia Feltes, Ph.D.; Tami L. Knotts, D.B.A.

**Assistant Professors:** Vinay K. Garg, Ph.D.; Benjamin D. Goss, Ed.D.; Melody LaPreze, Ph.D.; Philip Rothschild, Ph.D.; Wesley A. Scroggins, Ph.D.; Karen Lee Woodall, Ed.D.

**Lecturer:** Patricia A. Lambert, M.B.A.

**Emeritus Professors:** Charles W. Boyd, Ph.D.; Lena M. Cunningham-Smith, Ed.D.; Kenneth Horn, Ed.D.; Thomas H. Inman, Ed.D.; Ernest L. Laske, M.B.A.; Arnola C. Ownby, Ed.D.; Edward Skiffington, M.S.; Robert L. Trewatha, Ph.D.; Bobby C. Vaught, Ph.D.; Lynn E. Wasson, Ed.D.; Ralph W. Williams, Ph.D.

**Accreditation:** AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Majors

#### Entertainment Management (Comprehensive)

##### Bachelor of Science

- A. General Education Requirements - see “Academic Programs and Requirements” section of catalog
- B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog
- C. Major Requirements (33 hours)
  1. MGT 310(3), 410(3), 345(3), 494(3); MKT 410(3); ACC 311(3); RIL 335(3)
  2. Complete 12 hours from the following: MGT 341(3), 343(3), 368(3), 397(3), 465(3), 486(3); FGB 390(3); RIL 266(3), 415(3); THE 150(2), 250(2) or 255(2), 354(3), 495(3); HRA 215(3), 430(3); REC 320(3), 422(3); COM 439(3); GRY 308(3), 310(3), 324(3), 326(3); PLN 325(3); MUS 362 or 375 or 376 or 393; MUS 529(3)
  3. Electives to complete 125 hours
- D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

#### Management (Comprehensive)

##### Bachelor of Science

- A. General Education Requirements - see “Academic Programs and Requirements” section of catalog
- B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog
- C. Major Requirements
 

Complete one of the following options:

  1. **Administrative Management**
    - a. ACC 311(3); QBA 337(3); MGT 341(3), 342(3), 345(3), 368(3)
    - b. Complete two courses from: MGT 343(3), 384(3), 397(3), 442(3), 447(3), 465(3), 564(3); RIL 335(2)
  2. **Entrepreneurship**
    - a. ACC 311(3); QBA 337(3); MGT 341(3), 345(3), 384(3), 543(3), 561(3)
    - b. Complete one course from: MGT 343(3), 368(3), 447(3)
  3. **Human Resources Management**
    - a. ACC 311(3); QBA 337(3); MGT 341(3), 345(3), 450(3) or 451(3), 465(3), 546(3); RIL 314(3)
    - b. Complete one course from: ECO 310(3); PLS 356(3); MGT 410(3), 447(3), 466(3)
  4. **Production and Operations Management**
    - a. ACC 311(3); QBA 337(3); MGT 341(3), 343(3), 345(3), 368(3), 464(4)

- b. Complete one course from: MGT 447(3), 465(3), 560(3), 561(3), 564(3); RIL 531(3); IDM 359(3), 550(3)

##### 5. International Business Administration

The International Business Administration option must satisfy the following foreign language, geographic region, special international courses, and operational/cultural environment requirements.

- a. **Foreign Language:** Choose a language for a minimum of 12 semester hours above 100 level courses. A course in conversation is required. (The foreign language requirement may be waived with demonstrated proof of competency in the oral and written skills equivalent to the foreign language requirement.)
- b. **Geographic Region of Specialization:** Select one of the following regions associated with the language chosen, obtaining a minimum of three courses in at least two departments for a total of nine credit hours.
  1. **Asia (Pacific Rim Countries):** GRY 305(3), 320(3), 323(3), 397(1); PLN 597(3); HST 380(3), 381(3), 571(3), 597(1-3) – Asian History; PHI 314(3)
  2. **Latin America:** GRY 305(3), 320(3), 323(3), 397(1); PLN 597(3); HST 350(3), 587(3), 597(1-3) – Latin American History; PLS 339 or 342(3), 348(3); SPN 326(3)
  3. **Europe:** GRY 297(1), 305(3), 320(3), 323(3), 397(1); PLN 597(3); HST 353(3), 355(3), 361(3), 556(3), 559(3), 597(1-3) – European History; PLS 205(3), 341(3), SPN 325(3); FRN 325(3), 326(3); GRM 325(3)
- c. **Special International Courses:** MGT 447(3); MKT 574(3) and one course from: FGB 584(3); ECO 565(3); GRY 100(3), 308(3), 321(3), 323(3); HST 328(3); PLS 205(3), 232(3); RIL 539(3)
- d. **Operational or Cultural Environment:** Sufficient course work must be accomplished from among the following operational or cultural environment study paths so as to reach six hours total of credit in this category. Specific course requirements and credit hour levels must be arranged for in advance in conjunction with the department head.
  1. **Internship in a Multinational Firm:** Three to six hours of credit in MGT 494 can be earned for internship by working with a firm in a foreign country.
  2. **Student Foreign Study Tours:** One to three hours of credit in designated courses can be earned for participation in a student foreign study tour to Asia, Latin America, Europe, or other geographic regions pertinent to student areas of specializations.
  3. **Overseas Academic Programs:** The cultural benefits that accrue from a semesters’ enrollment in an overseas academic program such of the Missouri London Program will fulfill this six hour requirement.



- e. **Suggested Optional Electives:** ANT 226(3), 320(3), 330(3), ACC 505(3), ECO 305(3), 561(3); HST 101(3), 102(3); MGT 397(3), 561(3); PLS 342(3); SOC 380(3)
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog  
Suggested Electives (not required): MGT 447(3), 560(3), 561(3); MKT 575(3); ECO 305(3), 475(3); SOC 309(3), 359(3). For students interested in Industrial Management, electives include: IDM 354(3), 359(3), 456(3), 550(3), 551(3)

## Minors

### Human Resources Management/Industrial Relations

#### Bachelor of Applied Science

#### Bachelor of Arts

#### Bachelor of Science

- A. ACC 201(3); ECO 155(3); MGT 340(3), 345(3)\*  
B. Complete two courses from: MGT 450(3), 451(3), 465(3), 466(3), 546(3)

\**Students interested in personnel management in the public sector may substitute PLS 356(3) for MGT 345(3). Related electives but not required for a minor: ECO 310(3); RIL 531(3); MGT 341(3); PLS 356(3); PSY 529(3); SOC 309(3).*

### International Management

#### Bachelor of Applied Science

#### Bachelor of Arts

#### Bachelor of Science

- A. ACC 201(3); ECO 155(3); MGT 340(3), MKT 350(3); MGT 447 or MKT 474(3)  
B. Complete one course (not taken as part of above) from: MGT 447(3); MKT 474(3); ECO 565(3); FGB 584(3)

## Management

### Bachelor of Applied Science

### Bachelor of Arts

- A. ACC 201(3); ECO 155(3); MGT 340(3)  
B. Complete three courses from: MGT 325 or 345(3), MGT 341(3), 342(3), 343(3), 364(3), 368(3), 384(3), 560(3), 561(3)

## Management

### Bachelor of Science

- A. ACC 201(3), 211(3); ECO 155(3); MGT 340(3)  
B. Complete three courses from: MGT 341(3), 342(3), 325 or 345(3), 384(3), 546(3)  
C. Complete two courses from: MGT 343(3), 364(3), 368(3), 560(3), 561(3)

## Graduate Program

A Master of Health Administration degree is offered. See the Graduate Catalog for details.

### Accelerated Master of Business Administration degree

Eligible undergraduate students majoring in the College of Business Administration may apply for preliminary acceptance into the Master of Business Administration degree program during the second semester of their junior year after admission requirements for the accelerated masters program have been satisfied. If approved, up to six hours of 500-level or 600-level COBA courses taken in the senior year may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the MBA program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form

must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Health Care Management

Health Care Management courses and a Health Care Management minor are offered through the Nursing Department. See the Nursing Department section of catalog for details.

## Management Courses

### MGT 286 (AOS) Business Communications. 3(3-0) F,S.

Prerequisite: ENG 110. Managerial business communication theory and practice that includes speaking to large groups, interacting within small groups, improving listening skills, composing messages, writing reports based on library research, making ethical decisions, and communicating with other cultures and nationalities.

### MGT 300 Service Learning in Management. 1 F,S.

Prerequisite: 54 credit hours, concurrent registration in a management course designated as a service learning offering; and undergraduate business majors must be admitted to COBA. This service component for an existing course incorporates community service with classroom instruction in Management to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

### MGT 310 Introduction to the Entertainment Industry. 3(3-0) F.

Prerequisite: 54 credit hours; and undergraduate business majors must be admitted to COBA. An introduction to the entertainment industry including facets unique to the field such as managerial roles and organizational structures. Topics will also include an exposure to policies, legal, social, economic, and financial characteristics of this industry.

### MGT 320 (240) Patterns of Management. 3(3-0) D.

Prerequisite: 54 credit hours. A course designed specifically for non-business majors desiring a knowledge of management and its importance and application in various fields. Topical areas include: management functions and problems, decision-making, organizational design, managerial/non-managerial relationships, and management job opportunities. May not be taken for credit by students who have previously received credit for MGT 340.

### MGT 325 Fundamentals of Personnel Administration. 3(3-0) D.

Prerequisite: 54 credit hours. This course is designed for non-business majors. Topics include principles of employee supervision, recruitment, selection, training and development, compensation, labor relations, and separation. This course will be of particular value to managerial, supervisory, administrative, professional, and technical personnel in a variety of organizational settings. Does not count toward Business Administration major. May not be taken for credit by students who have previously received credit for MGT 345.

### MGT 340 Organizational Behavior and Management. 3(3-0) F,S.

Prerequisite: 54 credit hours, including PSY 121; and undergraduate business majors must be admitted to COBA. A study of individual, interpersonal, and group behavior within organizations and the behavioral implications of management processes. The interaction of human, technological, structural, global, ethical, and environmental factors are also discussed. A "C" grade or better is required in this course to take ACC 555. This course may not be taken Pass/Not Pass.

### MGT 341 Advanced Organization Behavior and Development. 3(3-0) F,S.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. An in-depth study of individual and organizational behaviors and processes. Such areas as individual differences, group dynamics, organizational processes, organizational change/development, and culture and ethics will be addressed utilizing a variety of interactive teaching methods.

### MGT 342 Organization Structure and Design. 3(3-0) F,S.

Prerequisite: undergraduate business majors must be admitted to COBA. A study of the macro-organization functioning with emphasis on how organization design dimensions interrelate to effect performance. Organization dimensions studied include environment, technology, size, structure, and effectiveness.

**MGT 343 Purchasing and Supply Management.** 3(3-0) F,S.

Prerequisite: MGT 364; and undergraduate business majors must be admitted to COBA. A study of the processes and problems involved in acquiring and controlling materials and services required for operations management in business, industry, and government. Includes source selection, quality and quantity control, value analysis, and negotiation and legal consideration.

**MGT 345 Human Resources Management.** 3(3-0) F,S.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. A study of the personnel functions of procurement, development, compensation, integration, and the maintenance of human resources within the framework of total available resources used in the accomplishment of organizational goals.

**MGT 364 Operations Management.** 3(3-0) F,S.

Prerequisite: MGT 340; nonbusiness majors QBA 237 or equivalent; and undergraduate business majors must be admitted to COBA. Forecasting, cost effectiveness, work measurement, work simplification, PERT, heuristic models and other techniques used in planning, coordinating, and controlling business functions.

**MGT 368 (360) Management Decision Making.** 3(3-0) F,S.

Prerequisite: MGT 364; and undergraduate business majors must be admitted to COBA. Quantitative techniques that aid the manager in making rational decisions. A study of the methods used in evaluating and selecting resources relative to achieving organizational objectives.

**MGT 384 Entrepreneurship.** 3(3-0) F,S.

Prerequisite: ACC 211 and MGT 340 and MKT 350; and undergraduate business majors must be admitted to COBA. An exposure to the dynamics of identifying opportunities and dealing with the risks of implementing new ideas and ventures. The factors and conditions in initiating a new business venture are studied along with entrepreneurial skills, venture capital formation, and business plan development.

**MGT 394 (399) Cooperative Education in Management.** 1-3, F,S.

Prerequisite: acceptance into Cooperative Education Program and permission of department head; and undergraduate business majors must be admitted to COBA. The opportunity to earn academic credit in a planned learning process that integrates academic training with supervised work experience. This is a variable content course that may be repeated to a total of 6 semester hours in Cooperative Education.

**MGT 397 (AOS) Business Report Writing.** 3(3-0) F,S.

Prerequisite: MGT 286; and undergraduate business majors must be admitted to COBA. Intensive preparation in the fundamentals of writing various types of business reports. Attention given to methods of and practice in determining the purpose, planning the investigation, collecting and organizing data, interpreting findings, and making oral and written presentations.

**MGT 398 (AOS) Managerial Communication.** 3(3-0) S.

Prerequisite: UHC 110 and COM 115 and ENG 221; and undergraduate business majors must be admitted to COBA. Accelerated study of organizational communications theory and practice. Emphasis on international communication and ethics. Individual and small group development of a variety of business documents and presentations. Replaces MGT 286 and 397.

**MGT 400 Topics in Management.** 1-3, D.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. A variable content course with topics that can change from semester to semester depending upon student and faculty interests. Topics generally require previous study in management. Examples: entrepreneurship, federal regulation of personnel management, designing structure for growth organizations, computerization and human resource management, stress and time management, managing not-for-profit organizations, women in management, and management feasibility studies. May be repeated to a total of 3 hours.

**MGT 410 Venue Management.** 3(3-0) D.

Recommended: MGT 310; and undergraduate business majors must be admitted to COBA. Study of the management of venues such as convention centers, sports arenas, theme parks, performing arts centers, etc. Topics addressed include technical, financial, legal, risk, contracting, and political implications.

**MGT 442 Selected Topics in Organizational Behavior.** 3(3-0) D.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. This course will focus on major current and emerging issues in organizational behavior (OB). Issues include topics such as motivation and leadership, communications, stress and wellness programs, group dynamics, etc. A single or selected set of topics will be dealt with in any given offering of the course. Content, research findings, and practical application of major models and theories will be stressed through a variety

of approaches intended to maximize student involvement. The course content will vary as demanded by student interest, faculty expertise, and environmental changes.

**MGT 447 International Management.** 3(3-0) D.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. A study of management principles and practices as they relate to the management of international organizations. Emphasis is placed on understanding, analyzing, and integrating managerial concepts within the context of cross-cultural settings. Cannot receive credit for both MGT 447 and MGT 647.

**MGT 450 Human Resource Development.** 3(3-0) D.

Prerequisite: MGT 345; and undergraduate business majors must be admitted to COBA. The design, implementation and evaluation of employee development programs. Topics covered include: training needs, analysis, learning theory, training methods, validity, and legal requirements. Specific employee development programs are discussed as they relate to executives, managers, and supervisors in organizations.

**MGT 451 Human Resource Acquisition.** 3(3-0) D.

Prerequisite: MGT 345; and undergraduate business majors must be admitted to COBA. An in-depth study of the application of Federal and state laws and regulations to HRM practices regarding the acquisition of human resources, appropriate and effective techniques of job analysis, HR planning, recruitment, and a detailed study of techniques and procedures for ensuring valid and effective selection of employees.

**MGT 464 Advanced Operations Management.** 4(4-0) S.

Prerequisite: MGT 364; and undergraduate business majors must be admitted to COBA. An in-depth analysis of operation management concepts and techniques. Current theory and specific practices are studied as they exist in organizational settings. Integration of techniques with computer application is emphasized.

**MGT 465 Industrial Relations.** 3(3-0) F,S.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. A study of environmental and policy considerations involved between management and labor unions in the industrial relations process. Emphasis is placed on the nature, process, and types of collective bargaining relationships; the interface between parties in preserving effective industrial relations within organizations; and promoting economic stability and growth.

**MGT 466 Advanced Issues in Human Resources Management.** 3(3-0) D.

Prerequisite: MGT 345 and QBA 237; and undergraduate business majors must be admitted to COBA. An in-depth study of practical human resource management issues and the steps involved in the design and implementation of employee selection systems, training programs, and performance appraisal systems. Included are methods of job analysis and the design and utilization of appraisal forms useful to managers. Based on practical considerations, some experiential techniques are used. Recent developments relevant to human resources practices will also be covered.

**MGT 486 (CIS) Administrative Communication.** 3(3-0) S.

Prerequisite: MGT 286; and undergraduate business majors must be admitted to COBA. Analysis of various business problem situations and development of appropriate communication strategies.

**MGT 487 Strategic Management and Policy.** 3(3-0) F,S.

Prerequisite: 102 credit hours, including FGB 380 and MGT 364 and MKT 350; and undergraduate business majors must be admitted to COBA. Integration of specialized areas of business administration; coordination of various business functions from the standpoint of the formulation, implementation and control of business objectives, strategies and policies.

**MGT 494 (499) Internship in Management.** 1-6, D.

Prerequisite: permission of department head and for Entertainment Management majors, completion of MGT 310 or MGT 410; and undergraduate business majors must be admitted to COBA. Opportunity to obtain simultaneously the practical as well as the theoretical knowledge through internship with cooperating businesses.

**MGT 496 (408) Readings in Business Administration—Management.** 1-2, D.

Prerequisite: permission of department head; and undergraduate business majors must be admitted to COBA. Planned readings designed to intensify and supplement the area of management.

**MGT 500 Administrative, Organizational and Operations Concepts for Managers.** 3(3-0) F,S.

Prerequisite: permission of a director of a COBA graduate program. Comprehensive study of the fundamentals of the management function, organiza-

tional behavior and design, and production and operations management. Designed for graduate students who have not had undergraduate courses in management or organizational behavior and operations management. This course will not be counted in the hours required for a COBA undergraduate or graduate degree.

**MGT 543 New Venture Management.** 3(3-0) S.

Prerequisite: MGT 384; and undergraduate business majors must be admitted to COBA. The course provides for extensive research and in-depth analysis in starting a new business venture. Major topics include sources of start-up capital, valuing an ongoing business, and marshalling physical and human assets. Emphasis is placed on student team preparation of a written feasibility study for a hypothetical business start-up.

**MGT 546 (346) Direct Compensation System Management.** 3(3-0) S.

Prerequisite: MGT 345; and undergraduate business majors must be admitted to COBA. Development and management of job-based and individual-based pay systems using job evaluation, skill/competency analysis and certification, wage surveys, and related techniques. The development of performance appraisal systems and the creation of individual-based, team-based, and aggregate performance-based pay systems are studied with emphasis on the strategic aspects of pay, internal consistency, external competitiveness, and legal compliance.

**MGT 560 History of Management Thought.** 3(3-0) D.

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. Background and interrelationship of classical, behavioral science, systems and quantitative management schools of thought; works of major contributors to contemporary management concepts, practices and theory.

**MGT 561 Practicum in Small Business Operations.** 3-6, D.

Prerequisite: permission of department head; and undergraduate business majors must be admitted to COBA. Experience in solving real problems within the actual business environment. Students provide counseling to small business firms. Cases are referred through the Small Business Administration. Course may be repeated to a total of 6 hours.

**MGT 564 Service Management.** 3(3-0) F.

Prerequisite: MGT 320 or 340; and undergraduate business majors must be admitted to COBA. The study of operational initiatives and strategic issues to improve quality of service. Techniques to assess, investigate and resolve problems regarding quality and how to involve employees in the quality movement are studied.

**MGT 596 Research Issues and Problems: Management.** 1-3, D.

Prerequisite: 90 hours and permission of department head; and undergraduate business majors must be admitted to COBA. Research issues and projects growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. Undergraduates only may repeat to a total of 6 hours.

*The following courses are open only to graduate students.*

**MGT 601 Health Services Organization.** 3(3-0) F.

Introduction to the health services delivery system. Analysis of the organizing, financing, and distribution of health services. Alternate delivery systems such as hospitals, acute care facilities, long-term facilities, prepaid practices, fee-for-services group practices and others are examined. Forces shaping present and future health care are evaluated.

**MGT 606 (AOS) Organizational Communication.** 3(3-0) F.

Prerequisite: MGT 286. Intensive study of communication behavior within various types of business organizations; provides student opportunities to develop communication skills further and to apply one's capacity to use effective organizational communication concepts through written and oral presentations. Emphasis upon the study of oral communication within business.

**MGT 647 (547) International Management.** 3(3-0) D.

Prerequisite: MGT 500 or its equivalent or permission. A study of management theory and practices as related to international organizations that are multinational in nature. Emphasis is placed on analyzing, understanding, and integrating managerial concepts as they apply to cross-cultural settings. Students are required to complete a research project. Cannot receive credit for both MGT 447 and MGT 647.

**MGT 660 Selected Topics in Management.** 3(3-0) D.

Prerequisite: check class schedule for prerequisites. Variable topics course in Management. Areas studied will be announced each semester in the class schedule. Course requirements include extensive readings, a paper, and, when appropriate, field trips.

**MGT 661 Operations Management: Comparative Theory and Practice.** 3(3-0) D.

Advanced study of the operations function in organizations. Emphasis is placed on operations management, planning and controlling techniques as they apply to all types of domestic and international organizations. Cost output-profit decisional techniques and productivity issues are studied as they relate to managerial goals, environmental conditions, and economic developments.

**MGT 662 (666) Problems in Human Resources Management and Industrial Relations.** 3(3-0) D.

Prerequisite: MGT 500 or equivalent. Intensive examination of the institutional, legal, and policy considerations of the parties involved in human resources management and labor relations with an emphasis on current issues.

**MGT 664 Organizational Behavior.** 3(3-0) F,S.

Prerequisite: MGT 500 or equivalent. Study of individual and group behavior viewed from a managerial perspective within the organizational setting. Attention is focused on applications by managers of theory and research about the interaction between human beings and the formal organization, with emphasis on individual differences, interpersonal relations, and small group dynamics.

**MGT 665 Organization Structure and Design.** 3(3-0) D.

An intensive macro approach to the study of the organization with emphasis on the interrelationships of organizational dimensions as they interact to effect organization design. Topics covered include environment, technology, work flows, structure, size, power, objectives, managerial philosophies, and effectiveness.

**MGT 667 Organization Strategy and Policy.** 3(3-0) F,S.

Prerequisite: 18 graduate hours in business administration and economics. Integration of the functional areas of business via the strategic planning process. Emphasis is placed upon the formulation, implementation, and control of an organization's mission, objectives, strategies, and policies as determined by external and internal analyses.

**MGT 690 (669) Seminar in Management.** 3(3-0) D.

Prerequisite: 18 graduate hours in business administration and economics. Critical evaluation and analysis of theory, research and practice in management.

**MGT 693 Health Administration Internship.** 6(6-0) F,S.

Prerequisite: permission of MHA Program Director or department head. Supervised field work in an approved health care organization. Student will work in a health care setting with an experienced health administrator serving as a preceptor. The preparation of a substantial management research project for the organization will be required which involves analyzing a major management challenge facing the organization and offering specific recommendations. This course satisfies the Graduate College's research requirement.

**MGT 694 Internship: Management.** 3(3-0) F,S.

Prerequisite: permission of the director of the appropriate graduate program and department head. In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

**MGT 696 (668) Independent Study: Business Administration.** 1-3, F,S.

Prerequisite: permission of advisor. In consultation with the advisor, student selects for intensive study a specific area of concern related to the student's program with emphasis on research.

**MGT 699 Thesis.** 1-6, D.

Prerequisite: permission. Independent research and study connected with preparation of thesis.

## Department of Marketing

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 Department Website: [www.missouristate.edu/mkt](http://www.missouristate.edu/mkt)

**Department Head:** Professor Robert H. Luke, Ph.D.

**Professors:** T. Sam Brown, Ph.D.; Ronald L. Coulter, Ph.D.; D. Michael Fields, Ph.D.; Nancy K. Keith, Ph.D.; R. Stephen Parker, D.B.A.; Dane K. Peterson, Ph.D.; Charles E. Pettijohn, D.B.A.; Linda S. Pettijohn, D.B.A.; Lois M. Shufeldt, Ph.D.; Gerald G. Udell, Ph.D.

**Associate Professors:** Melissa S. Burnett, Ph.D.; Diana L. Haytko, Ph.D.; John L. Kent, Jr., Ph.D.; Allen D. Schaefer, Ph.D.

**Assistant Professors:** Peggy S. Gilbert, M.B.A.; Charles M. Hermans, Ph.D.; Janice E. Parmley, M.A.; Carlo D. Smith, Ph.D.

**Lecturers:** Mary H. Chin, M.B.A.; Sherry J. Cook, M.B.A.; Christopher H. Ellis, M.B.A.

**Emeritus Professor:** R. William Stone, M.S.

**Accreditation:** AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Majors

#### Logistics and Transportation (Comprehensive)

##### Bachelor of Science

- A. General Education Requirements - see “Academic Programs and Requirements” section of catalog
- B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog
- C. Major Requirements
  - 1. MKT 430(3), 440(3), 450(3), 460(3)
  - 2. Complete four courses from MKT 351(3), 352(3), 360(3), 394(3), 472(3), 474(3); MGT 343(3); QBA 337(3)
- D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

#### Marketing (Comprehensive)

##### Bachelor of Science

- A. General Education Requirements - see “Academic Programs and Requirements” section of catalog
- B. COBA Admission and Program Requirements - see “College of Business Administration/Admission and Program Requirements” section of catalog
- C. Major Requirements
  - 1. MKT 351(3), 360(3), 472(3), 474(3); QBA 337(3)
  - 2. Complete one of the following options:
    - a. **Advertising and Promotion**
      - 1. MKT 352(3), 354(3), 456(3); MKT 380(3) or 510(3)
      - 2. Complete one course from: MED 365(3), 381(3); COM 328(3), 379(3), 439(3), JRN 378(3), 476(3); MKT 470(3), 480(3); MKT 380(3) or 510(3) if not taken for 2.a.1. requirement
    - b. **Marketing Management**
      - 1. MKT 352(3), 430(3), 476(3); MGT 341(3); MGT 397 or ENG 321(3)
      - 2. Recommended electives (not required): COM 436(3); RIL 335(2); MKT 354(3), 470(3); MGT 442(3); PSY 305(3)
    - c. **Marketing Research**
      - 1. MKT 352(3), 470(3), 596(3); SOC 505(3); MGT 397 or ENG 321(3)
      - 2. Recommended electives (not required): MKT 354(3); MGT 561(3)
    - d. **Retailing/Merchandising**
      - 1. MKT 352(3), 355(3), 455(3); MKT 394 or 596(3); CTM 187 or MKT 510(3)
      - 2. Recommended electives (not required): MGT 341(3); MKT 354(3); ART 223(3); HID 343(3); CTM 482(2)
    - e. **Sales/Sales Management**
      - 1. MKT 352(3), 451(3), 452(3); MKT 485 or MGT 486(3)
      - 2. Complete one course from: MGT 345(3); MKT 354(3), MKT 355(3)

- 3. Recommended electives (not required): MKT 476(3); MGT 343(3), 450(3); THE 123(3), 125(2)

D. General Baccalaureate Degree Requirements - see “Academic Programs and Requirements” section of catalog

### Minors

#### Advertising and Promotion

##### Bachelor of Applied Science

##### Bachelor of Arts

##### Bachelor of Fine Arts

##### Bachelor of Science

MKT 350(3), 352(3), 354(3), 456(3); MKT 351(3) or 480(3); and MKT 380(3) or 510(3)

#### e-Business

##### Bachelor of Applied Science

##### Bachelor of Arts

##### Bachelor of Science

CIS 510(3) or CIS 275(3); FGB 510(3); MKT 450(3), 510(3); MKT 596(3) or CIS 591(3) – only if senior project is e-business related

#### International Marketing

##### Bachelor of Applied Science

##### Bachelor of Arts

##### Bachelor of Science

MKT 350(3), 351(3), 474(3); FGB 584(3); MGT 340(3), 447(3)

#### Logistics and Transportation

##### Bachelor of Applied Science

##### Bachelor of Arts

##### Bachelor of Science

MGT 343(3); MKT 350(3), 430(3), 440(3), 450(3), 460(3)

#### Marketing

##### Bachelor of Applied Science

##### Bachelor of Arts

##### Bachelor of Fine Arts

##### Bachelor of Science

- A. MKT 350(3), 351(3)
- B. Complete four courses from: MKT 352(3), 354(3), 355(3), 360(3), 380(3), 430(3), 451(3), 452(3), 455(3), 456(3), 470(3), 472(3), 474(3), 476(3), 480(3), 485(3)

#### Retailing/Merchandising

##### Bachelor of Applied Science

##### Bachelor of Arts

##### Bachelor of Science

MGT 320 or 340(3); MKT 350(3), 351(3), 352 or 354(3), 355(3), 455(3)

## Selling

### Bachelor of Applied Science

### Bachelor of Arts

### Bachelor of Science

- A. MKT 350(3), 351(3), 352(3), 451(3), 452(3)  
 B. Complete one course from: MKT 485(3); MGT 345(3), 397(3), 486(3)

**NOTE:** Electives are offered since a minimum of nine additional hours not counted as requirements for any major or other minor and exclusive of “problems” and “reading” courses, is required for the completion of any minor in business. Students not meeting this requirement must select additional courses from the list of recommended electives.

## Graduate Program

### Accelerated Master of Business Administration degree

Eligible undergraduate students majoring in the College of Business Administration may apply for preliminary acceptance into the Master of Business Administration degree program during the second semester of their junior year after admission requirements for the accelerated masters program have been satisfied. If approved, up to six hours of 500-level or 600-level COBA courses taken in the senior year may be designated as “mixed credit” and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the MBA program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Marketing Courses

### MKT 150 Marketing Fundamentals. 3(3-0) F,S.

A survey of marketing designed to serve various groups of students – those from other colleges/departments who would like to develop a broad understanding of marketing, those who are undecided about a major and would like to explore marketing as a possibility; and those who desire to take a contemporary marketing course to assist them in their present career path. May not be taken for credit by students who have previously received credit for MKT 350.

### MKT 297 (200) Topics in Marketing I. 1-3, D.

A variable content course with topics that can change from semester to semester. Selected topics of contemporary interest are identified in the schedule of classes. Examples are: packaging, product liability, futures market, industrial marketing, and new product development. May be repeated to a total of 4 hours.

### MKT 300 Service Learning in Marketing. 1 F,S.

Prerequisite: 30 hours and concurrent registration in a marketing course designated as a service learning offering; and undergraduate business majors must be admitted to COBA. This service component for an existing course incorporates community service with classroom instruction in Marketing to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

### MKT 350 Principles of Marketing. 3(3-0) F,S.

Prerequisite: 54 credit hours and PSY 121; and undergraduate business majors must be admitted to COBA. Structure, functions, principles and methods employed in discovering and translating consumer needs and

wants into product and service specifications and then transferring these goods and services from producers to consumers or users.

### MKT 351 Consumer Market Behavior. 3(3-0) F,S.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. Influence of cultural, social, and psychological factors on consumer and customer behavior evidenced through behavioral science research.

### MKT 352 Personal Selling. 3(3-0) F,S.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. Principles and methods of effective personal selling, customer analysis and methods of sales presentations, and planning and coordinating the sales function.

### MKT 354 Principles of Advertising. 3(3-0) F,S.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. Advertising purposes, principles and procedures; development of appeals, media selection, layout, copy preparation; measures of advertising effectiveness.

### MKT 355 Principles of Retailing. 3(3-0) F.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. The application of retailing principles to real-world issues. Students are challenged to solve retailing scenarios using an “experience-based” format.

### MKT 360 Marketing Research. 3(3-0) F,S.

Prerequisite: MKT 350 and QBA 337; and undergraduate business majors must be admitted to COBA. Basic research techniques designed to introduce the student to modern research procedures and the research process. Emphasis placed on research techniques to collect, analyze, and interpret research information as a basis for improved decision-making; and for the development of marketing strategies and policies.

### MKT 380 Creative Advertising. 3(3-0) F.

Prerequisite: MKT 354; and undergraduate business majors must be admitted to COBA. An advanced course in the creation of broadcast and print advertising. Emphasizes strategic planning, developing creative concepts and assistance in writing and polishing copy and visuals within an ad, execution of finished product, and refining presentation skills.

### MKT 394 (399) Cooperative Education in Marketing. 1-3, D.

Prerequisite: acceptance into Cooperative Education Program and permission of the department head; and undergraduate business majors must be admitted to COBA. The opportunity to earn academic credit in a planned learning process that integrates academic training with supervised work experience. This is a variable content course that may be repeated to a total of 6 semester hours in Cooperative Education.

### MKT 410 Entertainment and Services Marketing. 3(3-0) D.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. The study, observation and application of specialized principles and practices in the area of entertainment, marketing of sports, performing arts, concerts, conventions and exposition activities.

### MKT 430 (530) Logistics and Transportation. 3(3-0) F,S.

Prerequisite: MKT 350 and MGT 340; and undergraduate business majors must be admitted to COBA. Analysis of the activities and decisions necessary to plan, implement and control private and public physical distribution and transportation channel systems. Emphasis on physical, human, informational and organizational system components. May be taught concurrently with MKT 630. Cannot receive credit for both MKT 430 and MKT 630.

### MKT 440 (540) Logistics Models. 3(3-0) F.

Prerequisite: MKT 430; and undergraduate business majors must be admitted to COBA. An advanced logistics course presenting the following topics, among others: routing/scheduling, facilities location, inventory management, and forecasting models/techniques. May be taught concurrently with MKT 640. Cannot receive credit for both MKT 440 and MKT 640.

### MKT 450 (550) Supply Chain Management. 3(3-0) F.

Prerequisite: MKT 430 or FGB 510; and undergraduate business majors must be admitted to COBA. This course emphasizes inter-firm relationships discussing quick response, just-in-time and efficient consumer response techniques in the context of strategic alliances and the use of

third-party providers. Additionally, equal emphasis is placed on traditional and e-Business supply chain management issues. May be taught concurrently with MKT 650. Cannot receive credit for both MKT 450 and MKT 650.

**MKT 451 Advanced Selling.** 3(3-0) S.

Prerequisite: MKT 352; and undergraduate business majors must be admitted to COBA. Advanced Selling is designed for the serious sales student. Concepts discussed in MKT 352 will be applied during this course. In addition, the course will delve into issues in selling and sales management that will impact their future in these positions.

**MKT 452(372) Sales Management.** 3(3-0) S.

Prerequisite: MKT 352; and undergraduate business majors must be admitted to COBA. Management aspects of personal selling, selection and recruiting of salesmen, sales training and sales meetings, compensation plans, incentive programs, planning of sales territories and analysis of sales data, etc.

**MKT 455 Advanced Retailing Practices.** 3(3-0) S.

Prerequisite: MKT 355; and undergraduate business majors must be admitted to COBA. An advanced study of retail buying practices, resident buying offices, domestic and foreign markets, fashion, promotion, color dynamics, display, inventory control, store location, customer services, pricing, sales projection, and research.

**MKT 456 (454) Advanced Advertising.** 3(3-0) F.

Prerequisite: MKT 354; and undergraduate business majors must be admitted to COBA. Further develops skills in advertising strategy and design. Activity includes campaign design and development, strategic planning, media buying strategy, national, global and ethical issues; recent developments in advertising will also be addressed.

**MKT 460 (560) Logistics and Transportation Strategy.** 3(3-0) S.

Prerequisite: MKT 440 and MKT 450; and undergraduate business majors must be admitted to COBA. Analysis of comprehensive cases incorporating strategic and tactical decisions throughout the materials and logistics marketing and management process. Cases include identification/definition of transportation and logistics problems, evaluation of integrated alternatives and development of recommendations. May be taught concurrently with MKT 660. Cannot receive credit for both MKT 460 and MKT 660.

**MKT 470 Advanced Marketing Research.** 3(3-0) S.

Prerequisite: MKT 350 and MKT 360; and undergraduate business majors must be admitted to COBA. Modern research techniques; problems of marketing and the use of research techniques; problems of marketing and the use of research information as a basis for establishing marketing policies and strategy.

**MKT 472 Advanced Marketing.** 3(3-0) F,S.

Prerequisite: MKT 351 and 360 (or concurrent enrollment of MKT 360 and MKT 472); and undergraduate business majors must be admitted to COBA. An analysis of the marketing concepts, functions, and principles involved in planning, implementing, and evaluating the total marketing program of various organizations.

**MKT 474 (574) International Marketing.** 3(3-0) F,S.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. Management of marketing functions in a multinational context where the parameters differ from those of domestic marketing. May be taught concurrently with MKT 674. Cannot receive credit for MKT 474 and MKT 674.

**MKT 476 (576) Futuristics: Business and Society.** 3(3-0) F.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. This course compares and analyzes the diverging views of an "economy of abundance" versus that of an "economy of scarcity." Major emphasis is directed toward predicting future changes in and the impact on the nature of firm, consumer life-styles, and society in general. May be taught concurrently with MKT 676. Cannot receive credit for MKT 476 and MKT 676.

**MKT 480 Advertising Campaigns.** 3(3-0) S.

Prerequisite: MKT 350 and MKT 354 and MKT 456 and permission; and undergraduate business majors must be admitted to COBA. Advanced advertising techniques are applied to the formation of a comprehensive

advertising campaign while working in an advertising agency-like atmosphere. Presentation(s) of the campaign will be made formally to students, faculty, and advertising executives, and may culminate in participation at the annual competition of the American Advertising Federation (AAF).

**MKT 485 Marketing Yourself.** 3(3-0) F,S.

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. A participative course designed to provide students with information regarding the skills necessary to succeed in their professional career.

**MKT 494 Executive Internship-Marketing.** 1-3, D.

Prerequisite: permission of the department head; and undergraduate business majors must be admitted to COBA. Opportunity to obtain simultaneously the practical as well as the theoretical knowledge through internship with cooperating business executives. May be repeated to a total of 3 hours.

**MKT 496 (408) Readings in Business Administration-Marketing.** 1-2, D.

Prerequisite: permission of the department head; and undergraduate business majors must be admitted to COBA. Planned readings designed to intensify and supplement the study of marketing.

**MKT 497 (400) Topics in Marketing II.** 1-3, D.

Prerequisite: MKT 350 and permission of the department head; and undergraduate business majors must be admitted to COBA. A variable content course, with topics that can change from semester to semester depending upon student and faculty interests. Topics generally require previous study in marketing. Examples: marketing of professional services, marketing of not-for-profit organizations, international marketing research, industrial marketing, physical distribution, sales forecasting, and legal issues of marketing. May be repeated to a total of 3 hours.

**MKT 500 Marketing Concepts for Managers.** 3(3-0) F,S.

Prerequisite: permission of a director of a COBA Graduate Program. Comprehensive study of the fundamentals of marketing. Designed for graduate students who have not had an undergraduate course in marketing. Will not be counted in the hours required for a COBA undergraduate or graduate degree.

**MKT 510 e-Marketing.** 3(3-0) F,S.

Prerequisite: FGB 510 or MKT 355 or MKT 354; and undergraduate business majors must be admitted to COBA. An examination of the concepts, strategies, and applications involved in Electronic Marketing, including use of the web, electronic mail, and other direct response advertising media for conducting e-Business.

**MKT 596 Research Issues and Problems: Marketing.** 1-3, D.

Prerequisite: MKT 360 and permission of the department head; and undergraduate business majors must be admitted to COBA. Research issues and projects growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a total of 3 hours.

*The following courses are open only to graduate students.*

**MKT 630 (530) Logistics and Transportation.** 3(3-0) S.

Prerequisite: MKT 500 or its equivalent or permission from a director of a COBA Graduate Program. Analysis of the activities and decisions necessary to plan, implement and control private and public physical distribution and transportation channel systems. Emphasis on physical, human, informational and organizational system components. Students are required to complete a research project in the course area. May be taught concurrently with MKT 430. Cannot receive credit for MKT 430 and MKT 630.

**MKT 640 (540) Logistics Models.** 3(3-0) F.

Prerequisite: MKT 630. An advanced logistics course presenting the following topics, among others: routing/scheduling, facilities location, inventory management, and forecasting models/techniques. Students are required to complete a research project in the course area. May be taught concurrently with MKT 440. Cannot receive credit for MKT 440 and MKT 640.

**MKT 650 (550) Supply Chain Management Seminar.** 3(3-0) F. Prerequisite: MKT 630 or FGB 510 or permission from a director of a COBA Graduate Program. This course emphasizes inter-firm relationships discussing quick response, just-in-time and efficient consumer response techniques in the context of strategic alliances and the use of third-party logistics providers. Additionally, equal emphasis is placed on traditional and e-Business supply chain management issues. May be taught concurrently with MKT 450. Cannot receive credit for MKT 450 and MKT 650.

**MKT 660 (560) Logistics and Transportation Strategy.** 3(3-0) S. Prerequisite: MKT 640 or MKT 650. Analysis of comprehensive cases incorporating strategic and tactical decisions throughout the materials and logistics marketing and management process. Cases include identification/definition of transportation and logistics problems, evaluation of integrated alternatives and development of recommendations. Students are required to complete a research project in the course area. May be taught concurrently with MKT 460. Cannot receive credit for MKT 460 and MKT 660.

**MKT 669 Seminar in Marketing.** 3(3-0) D. Prerequisite: 15 graduate hours in business administration and economics and permission of the coordinator of graduate studies. Critical evaluation and analysis of theory, research, and practice in marketing.

**MKT 670 Seminar in Marketing Research.** 3(3-0) D. Prerequisite: 12 graduate hours in business administration and economics including MKT 672. Designed to enable students through first-hand experience to understand the various parts of research papers, methods of gathering data, appropriate tests of information, and interpretation of findings, including implications for further study.

**MKT 672 Marketing Management.** 3(3-0) F,S. Prerequisite: MKT 500 or its equivalent or permission from a director of a COBA Graduate Program. Theoretical bases of marketing concepts, principles and strategies; development, acceptance and expected future direction of emerging marketing practices.

**MKT 674 (574) International Marketing.** 3(3-0) F,S. Prerequisite: MKT 500 or its equivalent or permission from a director of a COBA Graduate Program. Management of marketing functions in a multinational context where the parameters differ from those of domestic marketing. Students are required to complete a research project in the course area. May be taught concurrently with MKT 474. Cannot receive credit for MKT 474 and MKT 674.

**MKT 676 (576) Futuristics: Business and Society.** 3(3-0) F. Prerequisite: MKT 500 or its equivalent or permission from a director of a COBA Graduate Program. This course compares and analyzes the diverging views of an "economy of abundance" versus that of an "economy of scarcity." Major emphasis is directed toward predicting further changes in and the impact on the nature of firm, consumer lifestyles, and society in general. Students are required to complete a research project in the course area. May be taught concurrently with MKT 476. Cannot receive credit for MKT 476 and MKT 676.

**MKT 694 Internship: Marketing.** 3(3-0) F,S. Prerequisite: permission of the director of the appropriate graduate program and the department head. In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

**MKT 696 Independent Study: Marketing.** 1-3; F,S. Prerequisite: permission of the department head. In consultation with coordinating professor, student selects a specific area of emphasis (related to the degree program) for a significant, in-depth study, with particular emphasis on research.

**MKT 699 Thesis.** 1-6, D. Prerequisite: permission of the department head. Independent research and study connected with preparation of thesis.

## Quantitative Business Analysis Courses

**QBA 237 (CIS) Basic Business Statistics.** 3(3-0) F,S.

Prerequisite: CIS 101 or CSC 101 and MTH 135 or higher (excluding MTH 145). Collection, analysis, interpretation and presentation of data related to business, measures of central tendency and dispersion, elementary probability, probability distributions, sampling, standard error, interval estimation, hypothesis testing. Computer statistical packages will be utilized in analysis of a variety of applications problems. A student may not receive credit toward a degree for more than one of the following courses: AGR 330, ECO 308, QBA 237, MTH 340, PSY 200, REC 331, SOC 302.

**QBA 328 Survey Sampling in Business Research.** 3(3-0) F.

Prerequisite: QBA 337 (or concurrent enrollment in QBA 337 and QBA 328); and undergraduate business majors must be admitted to COBA. An examination of various probabilistic and nonprobabilistic sampling techniques that are widely used in business research. Sample reliability, validity and other survey issues will be examined.

**QBA 337 (CIS) Applied Business Statistics.** 3(3-0) F,S.

Prerequisite: QBA 237 or equivalent; and undergraduate business majors must be admitted to COBA. Business application of hypothesis testing, tests of goodness of fit and independence, analysis of variance, simple and multiple regression and correlation, nonparametric methods, time series and forecasting, and decision theory. Computer statistical packages will be utilized in analysis of a variety of applications problems.

**QBA 420 (CIS 520) Computer Management Science.** 3(3-0) S.

Prerequisite: QBA 337; and undergraduate business majors must be admitted to COBA. A study of quantitative techniques including linear programming, critical path decisions (PERT/CPM), inventory modeling, and computer simulation. Quantitative techniques computer software is used in solving business problems.

**QBA 437 (CIS) Forecasting for Decision Support.** 3(3-0) S.

Prerequisite: QBA 337; and undergraduate business majors must be admitted to COBA. A study of various forecasting methods and their application in decision support. Computer software packages will be utilized in the application of the forecasting methods.

**QBA 500 (600) Statistical Methods in Business Research.** 3(3-0) F,S.

Prerequisite: permission of a director of a COBA Graduate Program. Comprehensive study of the fundamentals of statistics. Designed for graduate students who have not had an undergraduate statistics course. This course will not be counted in the hours required for a COBA undergraduate or graduate degree.

**QBA 547 Nonparametric Statistics for Business Decisions.** 3(3-0) F.

Prerequisite: QBA 337 or 500; and undergraduate business majors must be admitted to COBA. The use of nonparametric statistics in business research designs, including the one-sample, two-sample, and multiple-sample cases. Computer application of nonparametric tests will be used where appropriate.

*The following courses are open only to graduate students.*

**QBA 637 (CIS) Research Design and Analysis.** 3(3-0) S.

Prerequisite: CIS 101 or CSC 101 and either QBA 337 or 500. Advanced statistical methods for conducting research in business and economics. Discussion and application of design procedures, hypotheses formulation, data collection and data analysis. Topics include regression analysis, and analysis of variance, multivariate analysis, experimental design, nonparametric methods, etc. Computer statistical packages will be used extensively.

**QBA 665 (CIS) Quantitative Methods in Business Decision Making.** 3(3-0) F,S.

Prerequisite: QBA 500 or its equivalent or permission of a director of a COBA Graduate Program. A study of quantitative methods used to improve the decision-making process in business. Major topics include constrained optimization models, forecasting models, simulation models, and decision theory.



## College of Education

304 Hill Hall, Phone: 836-5254, FAX: 836-4884  
Email: [CollegeofEducation@missouristate.edu](mailto:CollegeofEducation@missouristate.edu)



Hill Hall.

**Dean and Head of Professional Education Unit: Professor David L. Hough, Ph.D.**

304 Hill Hall, Phone 836-5254

**Associate Dean: Professor Christopher J. Craig, Ed.D.**

300 Hill Hall, Phone 836-8775

**Administrative Assistant, NCATE: Joy Brown, B.S.E.**

301-A Hill Hall, Phone 836-5254

The College of Education includes:

**Department of Counseling**

**Department Head:** Professor Charles R. Barké, Ph.D.  
297 Sicheluff Hall, Phone 836-5449

**Department of Early Childhood and Family Development**

**Department Head:** Professor Suzanne M. George, Ph.D.  
621 E. Elm St., Phone 836-3262

**Department of Educational Administration**

**Department Head:** Professor William J. Agnew, Ed.D.  
196 Sicheluff Hall, Phone 836-5392

**Department of Library Science**

**Department Head and Dean:** Professor Karen L. Horny, M.A.L.S.  
**Coordinator, LIS Education:** Professor J.B. Petty, Ph.D.  
Duane G. Meyer Library, Phone 836-4525

**School of Teacher Education**

**Director:** Professor Fred H. Groves, Ph.D.,  
207 Hill Hall, Phone 836-6769

**Child Development Center**

**Director:** Mark A. Casertano, Ph.D.  
Professional Building, Phone 836-7650

**Greenwood Laboratory School**

**Director:** Dr. Janice Duncan  
Greenwood Laboratory School, Phone 836-5124

**Office of Student Services**

**Director:** Professor David W. Brown, Ed.D.  
200 Hill Hall, Phone 836-5253

**Educational Field Experiences and Clinical Practice**

**Coordinator:** Sharon L. Terry, B.M.E.  
200 Hill Hall, Phone 836-5253

**Office of Teacher Certification Compliance**

**Coordinator:** Scott K. Fiedler, M.S.  
203 Hill Hall, Phone 836-8772

**Professional Education Advisement Center**

**Coordinator:** Stephanie C. Marinec, M.S.Ed.

**Professional Education Unit**

**Head:** Professor David L. Hough, Ph.D.

**Director of Secondary Education:** Evelyn S. Maxwell, M.S.Ed.  
301B Hill Hall, Phone 836-5944



## Missouri State Teacher Certification

Students who have already obtained a Bachelor's degree and are seeking Missouri state teacher certification should contact the Office of Teacher Certification Compliance, 203 Hill Hall, Phone 836-8772. This office provides a program evaluation and transcript analysis service for initial certificates (\$40 fee required), advisement and assistance to gain certification and/or additional endorsements.

## Correspondence Credit

To apply correspondence credit in educational methods courses on a Bachelor of Science in Education degree, a student enrolled at Missouri State must have written permission from the Dean of the College of Education.

## Missouri State Board of Education Approved Programs

The following professional education programs have been approved by the Missouri State Board of Education for purposes of teacher preparation and certification. The approval date is from October 15, 2003, and extends through 2010.

### Communication Sciences and Disorders

**Approved Program: Dr. Neil DiSarno, 836-5368**

- Speech/Language Specialist (K-12)
- Deaf/Hearing Impaired (K-12)

### Early Childhood and Family Development

**Approved Program: Dr. Suzanne George, 836-3262**

- Early Childhood Education (B-3)

### School of Teacher Education

**Approved Programs: Dr. Fred Groves, 836-6769**

Elementary Education (1-6)

Middle School (5-9):

- Language Arts
- Social Studies
- Mathematics
- Science
- \*Agriculture
- \*Business
- \*Drama
- \*Speech

Special Education:

- Mild/Moderate: Cross Categorical (K-12)
- Mild/Moderate: Behavior Disorder (K-12)
- Mild/Moderate: Learning Disability (K-12)
- Mild/Moderate: Mentally Handicapped (K-12)
- \*Blind and Partially Sighted (K-12)
- \*Early Childhood Special Education (K-12)

## Secondary Education (9-12/K-12)

**Approved Programs: Mrs. Evelyn Maxwell, 836-5944**

Agriculture (9-12)

Dr. Anson Elliott, 836-5638

Art (K-12)

Dr. Andrew Cohen, 836-5110

Business (9-12)

Dr. Jerry Chin, 836-4131

English (9-12)

English for Speakers of Other Languages (K-12)\*

Dr. W.D. Blackmon, 836-5107

Foreign Language (K-12):

Dr. Madeleine Kernan, 836-5122

French

German

Latin

Spanish

Industrial Technology (Technology Education) (9-12)

Dr. Anson Elliott, 836-5638

Journalism (9-12)\*

Dr. Karen Buzzard, 836-5218

Mathematics (9-12)

Dr. Yungchen Cheng, 836-5112

Music (K-12):

Dr. Roger Stone, 836-5648

Instrumental

Vocal/Choral

Physical Education (K-12)

Driver's Education (9-12)\*

Health (K-12)\*

Dr. Sarah McCallister, 836-5370

Science (9-12):

Biology-Categorical

Biology-Unified Science

Dr. Alicia Mathis, 836-5126

Chemistry-Categorical

Chemistry-Unified Science

Dr. Tamera Jahnke, 836-5506

Earth Science Categorical

Dr. Thomas Plymate, 836-5800

Physics-Categorical

Dr. Pawan Kahol, 836-5131

Social Studies (History) (9-12)

Dr. Michael Sheng, 836-5511

Speech/Theatre (9-12)

Dr. Wade Thompson, 836-4400

Vocational Family and Consumer Science (B-12)

Dr. Michele Granger, 836-5136

*\*Only available as an additional area of certification. Student must be concurrently enrolled in another area of Elementary, Middle School, or Secondary Education.*

## Department of Counseling

297 Sicheluff Hall, Phone: 836-5449, FAX: 836-4918

Email: [Counseling@missouristate.edu](mailto:Counseling@missouristate.edu)

Department Website: <http://education.missouristate.edu/counseling>

**Department Head:** Professor Charles R. Barké, Ph.D.

**Associate Professors:** Paul Blisard, Ed.D.; Deborah Cox, Ph.D.; Joseph F. Hulgus, Ph.D.

**Assistant Professors:** A. Leslie Anderson, Ph.D.; Jeffrey H.D. Cornelius-White, Psy.D.; Kristi Perryman, Ph.D.

**Lecturer:** Linda Smith, Psy.D.

**Emeritus Professors:** Leon Bradshaw, Ed.D.; Paul D. Enochs, Ph.D.; Mildred Fortner, Ed.D.; Shirley Hendricks, Ed.D.; Frances McNiece, Ph.D.; Harold E. Pratte, Ed.S.; Billy Rippee, Ed.D.; Gary Wilson, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Counseling, M.S.

### Graduate Program

The Master of Science degree offers a major in Counseling with options in elementary school counseling, secondary school counseling, and community agency counseling. See the Graduate Catalog for details.

### Counseling Courses

*The following courses are open only to graduate students.*

**COU 600 (GAC) Problems in Counseling.** 1-3, F,S.

Prerequisite: permission of instructor. Individual investigation into a problem or problems of concern to the student and deemed of significance by the instructor. Written report required. May be repeated to 9 credit hours.

**COU 601 (GAC) Tests and Measurements for Counselors.** 3(3-0) D.

A comprehensive study of instruments for measuring psychological traits, including group devices suitable for use in elementary and secondary schools, as well as individual instruments for use in both school and community agency settings. Basic statistical concepts and common terminology related to measurement are taught as a functional part of the course.

**COU 602 (GAC) School Counseling Foundations and Ethics.** 3(3-0) D.

Philosophy, organization, and practices of a counseling program in the elementary and secondary school. The school counselor's role as counselor, consultant, and coordinator, professional identity, and legal issues are included. Includes a significant focus on ethical standards and issues.

**COU 603 (GAC) Community Agency Counseling Foundations and Ethics.** 3(3-0) D.

An introduction and overview of the history, philosophy, and function of the counselor in mental health and other community agency settings. Includes an examination of service population characteristics and treatment needs, intervention modalities and approaches, professional identity, and related topics. Includes a significant focus on ethical standards and issues.

**COU 605 (GAC) Orientation to Personal and Professional Development.** 3(3-0) D.

This course is an experience in personal and group encountering and sensitivity. Its purpose is to assist students in discovering a more complete awareness, understanding, and acceptance of themselves and others as human beings. Primary emphasis will be upon students exploring self, values, needs, and personal characteristics. Graded Pass/Not Pass only.

**COU 607 (GAC) Human Development and Personality.** 3(3-0) D. Study of child, adolescent and adult psychological development theories, normal adjustment processes, personality structure, and abnormal behavior.

**COU 608 (GAC) Child Counseling Theories and Techniques.** 3(3-0) D.

Prerequisite: admission to the COU elementary program option and either COU 602 or COU 603, and COU 605, COU 610 and COU 611, or permission. A consideration of major theories of counseling as they are related to counseling with elementary school-aged children. Emphasis is placed upon the counseling process as it affects the educational, personal, and social adjustment of children.

**COU 610 (GAC) The Helping Relationship.** 2(2-0) D.

Prerequisite: admission to COU program and concurrent enrollment in COU 611. Two training components are integrated to provide an intensive pre-practicum experience. The didactic component introduces basic skills of effective interpersonal communication and counseling. Participation in co-requisite laboratory (COU 611) provides supervised practice in the practical application of those skills in simulated counseling interviews.

**COU 611 (GAC) The Helping Relationship Lab.** 1(0-3) D.

Prerequisite: admission to COU program. First enrollment must be concurrent with COU 610. Designed to accompany COU 610, this lab provides an opportunity for graduate students in counseling to practice basic counseling skills in role-played sessions with live observation, video-taped review and supervisory feedback. First enrollment must be concurrent with COU 610. Repeatable to 3 credit hours. Graded Pass/Not Pass only.

**COU 614 (GAC) Diversity and Multicultural Issues in Counseling.** 3(3-0) D.

Prerequisite: admission to COU program or permission of instructor. An introduction to counseling theories, interventions and issues in working with clients from diverse, minority and ethnic cultures. Values, beliefs and norms of various cultures, including the student's, will be examined as they pertain to the counseling process.

**COU 624 (GAC) Appraisal and Clinical Interviewing.** 3(3-0) D.

Prerequisite: admission to COU program and COU 610 and COU 611; or permission of instructor. Study of and practice in conducting clinical interviews, appraising level of functioning and mental status, and developing diagnoses of psychoemotional disorders.

**COU 633 (GAC) Couple and Family Counseling.** 3(2-2) D.

Prerequisite: admission to COU program and COU 610 and COU 611, or permission of instructor. An introduction to the major theories of couple and family counseling and their associated interventions. An integrated combination of lecture, discussion, demonstration and role-play lab sessions will be used.

**COU 651 (GAC) Theories and Techniques of Counseling.** 3(3-0) D.

Prerequisite: admission to COU program and COU 605 and; either COU 602 or COU 603; or permission of instructor. Examination of various theoretical approaches to counseling; significance of theories in counseling practice. Overview of interventions and techniques associated with each theory. Students make an intensive investigation of a problem to be selected in counseling theory and methods. Report of the investigation required.

**COU 652 (GAC) Career Development.** 3(3-0) F,S.

Prerequisite: admission to COU program and COU 610 and COU 611, or permission of instructor. A consideration of the various theories of career development and their implications in counseling for vocational adjustment. A study of the work ethic, the labor force, and the concept of career education. Designed to give students competence in collecting and using occupational and educational information in counseling related to career development and in developing career education programs.

**COU 653 (GAC) Analysis of Childhood Learning and Adjustment.** 3(3-0) D.

Prerequisite: admission to COU program and COU 601, or permission of instructor. Acquaints student with various assessment and diagnostic procedures in evaluation of learning and adjustment problems.

**COU 656 (GAC) Group Counseling.** 3(3-0) D.

Prerequisite: admission to COU program and; either COU 680 or COU 682 or COU 684; or permission of instructor. Acquaints counselors with group counseling theories and techniques. Includes a practicum component in which students will lead or co-lead a counseling group.

**COU 660 (GAC) Seminar in Guidance and Counseling.** 1(1-0) D.

Prerequisite: admission to COU program or permission of instructor. The study, analysis, and discussion of special topics culminating in a substantial written report. Graded Pass/Not Pass only.

**COU 665 Research Seminar in Counseling.** 3(3-0) D.

Prerequisite: admission to COU program and SFR 690, or permission of instructor. The study, analysis, and discussion of special topics culminating in a substantial written report. Preparation of a Professional Portfolio. Graded Pass/Not Pass only.

**COU 670 (GAC) School Counseling Program Management.** 3(3-0) D.

Prerequisite: admission to COU program or permission of instructor. The focus will be on school counseling program development and improvement including needs assessment, implementation, evaluation, time management and goal setting. Option will be on learning the Missouri Comprehensive Guidance Program Model.

**COU 675 (GAC) Community Agency Management.** 2(2-0) D.

Prerequisite: admission to COU program or permission of instructor. Community Agency program development and management, including topics in licensure, practice guidelines, needs assessment, mental health care systems, insurance, and evaluation of services.

**COU 680 (GAC) Secondary School Counseling Practicum.** 3(0-6) F,S.

Prerequisite: admission to COU program and COU 610 and COU 651 each with grade of B or better; and COU 611 and department approval for practicum. Supervised counseling with secondary school aged students and their families; observation, discussion, and evaluation of the counseling process. Graded Pass/Not Pass only.

**COU 681 (GAC) Field Experience-Secondary.** 3(1-10) F,S.

Prerequisite: admission to COU program and; either COU 680 or COU 684; and department permission. Supervised experience in secondary

school counseling at an approved school site. Minimum of 150 hours on-site. Students will receive individual supervision on-site, and small-group supervision from the department. Graded Pass/Not Pass only.

**COU 682 (GAC) Elementary School Counseling Practicum.** 3(0-6) S.

Prerequisite: admission to COU program and COU 610 and COU 608 each with grade of B or better; and COU 611 and department approval for practicum. Supervised counseling with elementary school-aged children and their parents; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

**COU 683 (GAC) Field Experience-Elementary.** 3(1-10) F,S.

Prerequisite: admission to COU program and COU 682; and department permission. Supervised experience in elementary school counseling at an approved school site. Minimum of 150 hours on-site. Students will receive individual supervision on-site, and small-group supervision from the department. Graded Pass/Not Pass only.

**COU 684 (GAC) Community Agency Counseling Practicum.** 3(0-6) D.

Prerequisite: admission to COU program and COU 610 and COU 651 each with grade of B or better; and COU 611 and department approval for practicum. Supervised counseling experience of clients from the community; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

**COU 685 (GAC) Community Agency Counseling Internship.** 3(3-0) D.

Prerequisite: admission to COU program and; either COU 680 or COU 684; and department permission. Supervised experiences (individual, family, group) in counseling at an approved community agency site. Minimum of 300 hours on-site. Students will receive individual supervision on-site, and small group supervision from the department. May be repeated to 9 credit hours. Graded Pass/Not Pass only.

**COU 686 (GAC) School Psychological Examiner Practicum.** 3(3-0) D.

Prerequisite: COU 601 and COU 653 and PSY 620. This course is a supervised practicum in the administration and interpretation of individual intelligence tests, formal and informal diagnostic procedures and diagnostic interviewing techniques in an educational or clinical setting. Graded Pass/Not Pass only.

**COU 690 (GAC) Counseling Workshop.** 1-3, F,S.

Improves skills and knowledge of counselors in specific areas. Each workshop considers a single topic in depth. 30 hours of participation equal 1 semester hour.

**COU 695 (GAC) Topics in Counseling.** 1-3, D.

Individual or group class designated to address specialized topics of interest to graduate students in counseling. May be repeated to 9 credit hours.

**COU 699 (GAC) Thesis.** 1-6, F,S.

Independent research and study connected with preparation of thesis.

## Early Childhood and Family Development

621 E. Elm St., Phone: 836-3262, FAX: 836-3263

Email: [ecfd@missouristate.edu](mailto:ecfd@missouristate.edu)

**Department Head:** Professor Suzanne M. George, Ph.D.

**Professor:** Peggy S. Pearl, Ed.D.

**Associate Professor:** Mary Beth Mann, Ph.D.

**Assistant Professors:** Joanna J. Cemore, Ph.D.; Denise D. Cunningham, Ph.D.; James A. Meyer, Ph.D.

**Instructor:** Janice L. Hendrix, M.Ed.

**Lecturer:** Kathy A. Bernet, M.S.

**Emeritus Professor:** Linda K. Peacock, M.Ed.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Early Childhood Education, B.S.Ed.

### General Education Course

CFD 155 may be used to satisfy the Social/Behavioral Perspective of the Self-Understanding Area of Inquiry in General Education.

### Health and Registry Requirements

The Missouri Department of Health and Senior Services, Child Care Licensing, requires all students working with children to register with the Family Care Safety Registry and to have a current, negative tuberculin skin test. Fees are required for both the tuberculin skin test and the registry. Contact the Department of Early Childhood and Family Development for details.

### Learning Connection

The Learning Connection is an in-service and teacher training component of the Early Childhood and Family Development department that provides training opportunities for child care providers of infants, toddlers, preschoolers, and school-age children. The Learning Connection strives to offer educational training at convenient times for child care providers. For information, contact Vickie Sowers, Project Coordinator, (417) 836-4151 or via email at [vis989t@missouristate.edu](mailto:vis989t@missouristate.edu).

## Majors

### Child and Family Development (Comprehensive) Bachelor of Science

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: PSY 121(3); BIO 102(4)
- B. Major Requirements – The Missouri Department of Health and Senior Services, Child Care Licensing, requires all students working with children to register with the Family Care Safety Registry.
  1. CFS 130(3), 373(3); CFS 120(2) or PED 253(2) or PED 257(2); HID 140(3); CFD 150(1), 155(3), 160(3), 163(3), 250(3), 257(3), 260(4), 360(5), 455(4), 466(6), 560(3), 563(3); CFD 301(2) or 350(2) or 354(2) or 532(3); CFD 361(3) or CFD/GER 365(3) or CFD 562(3) or SOC 315(3).
  2. Related Requirements: PSY 441(3), PSY elective (3), and additional upper-division hours selected according to career interests in consultation with advisor, and other elective hours to meet the minimum hours required to graduate.
- C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Early Childhood Education Bachelor of Science in Education (Certifiable Birth-Grade 3)

The curriculum for early childhood teaching leads to the degree of Bachelor of Science in Education and carries with it an initial professional certificate (PCI) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education. Holders of this early childhood certificate may be employed to teach from birth through grade 3.

#### Admission Requirements

- A. All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. See “Academic

Programs and Requirements/Teacher Education Program” section of catalog.

- B. The Early Childhood Education program has a selective admission policy. In addition to meeting all requirements for admission to the Teacher Education Program, those wishing to pursue a degree in Early Childhood Education must complete a separate application while enrolled in ELE 302. In addition to the application form, students will write a one-page essay describing their interest in a career in Early Childhood Education. More details are available on the application form itself which is available in the Education Advisement Center, Hill Hall 202. Applications for the program must be submitted during the semester of enrollment in ELE 302 by October 1 for fall semesters, March 15 for spring semesters, and June 15 for summer sessions. As this is a competitive program, admission is not guaranteed.

Transfer students and post-baccalaureate students must also apply for admission to the Early Childhood Education program. Transfer students must meet with advisors in the Education Advisement Center and post-baccalaureate students must meet with staff from the Teacher Certification Office in Hill Hall 203 to determine when they are eligible to complete the application and essay. All students must adhere to the deadlines stated above.

The application and essay will be reviewed by a committee appointed by the Department Head. Criteria for selection will be based on GPA and written essay. Students will be notified of the decision in writing by November 1 for fall semesters, April 1 for spring semesters, and July 1 for summer sessions. Students who are not accepted into the program may reapply in the following semester.

#### Program Requirements

In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B and C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a “C” in all professional education courses. All GPA requirements include both Missouri State and transfer grades. Additional State Board of Education certification rules require passing scores (scores of 265 required by Missouri State) on all portions of the College Basic Academic Subject Examination (C-BASE) and successful completion of the appropriate Praxis Examination (National Teachers Examination (NTE) Specialty Area Test) with a score equal to Missouri’s qualifying score. Praxis must be completed before Supervised Teaching.

- A. General Education (see General Education section of catalog) (43-54 hours)  
Specific courses required for major and/or certification which may be used to satisfy General Education Requirements
  1. Basic Required Courses
    - a. English Composition (6 hours): ENG 110(3) and ENG 210(3)
    - b. Mathematics: Completion of general education requirement with a grade of “C” or better. MTH 130(3) recommended.

- c. Public Speaking: COM 115(3)
- 2. Areas of Inquiry
  - a. Natural World: PHY 101(4) and BIO 100(4)
  - b. Culture and Society/Social Sciences Perspective: SOC 150(3)
  - c. Self-Understanding/Social-Behavioral Perspective: PSY 121(3)
  - d. Courses used to meet the Humanities and the Creativity and Vision Perspectives must have two (2) different course codes to meet state certification requirements. ART 200 or MUS 241 recommended.
- 3. Public Affairs/American Studies
  - a. HST 121(3) or HST 122(3)
  - b. PLS 101(3)
- B. Other courses required for degree (4 hours)  
GRY 135(4) or GRY 142(4) or GRY 240(4)
- C. Degree Requirements for Teacher Certification (25 hours)
  - 1. Child Development: CFD 160(3), CSD 312(3); PED 545(3)
  - 2. Home-School-Community Relationships: CFD 560(3)
  - 3. Program Management: CFS 130(3); CFD 260(4), 563(3)
  - 4. Mathematics: MTH 320(3)
- D. Professional Education (54 hours)  
(NOTE: A grade of "C" or better in each course is required for state certification.)
  - 1. Foundations of Teaching: EDC 150(1), 350(3); ELE 302(3); SPE 310(3)
  - 2. Teaching Methods: IMT 365(3); ECE 301(3), 302(2), 303(3), 401(4), 402(2); CFD 455(4); ENG 334(3); RDG 318(3); 420(3), 421(2)
  - 3. Clinical Experiences: choose 2 of the following 3 courses: ECE 490(6), 491(6), or 492(6)
- E. Specific Requirements for Bachelor of Science in Education degree  
(see "Academic Programs and Requirements" section of catalog)
- F. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minor

### Child and Family Development

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Social Work

Select six hours from the following, with approval of a CFD advisor: CFD 155(3), 160(3), 163(3); plus select 12 hours from the following: CFS 130(3), 300 (1-3) (Child and Family Development Topics), 373(3); CFD 250(3), 257(3), 260(3), 301(2), 305(2), 354(2), 532(3), 562(3) to bring total to at least 18 hours.

## Child and Family Development Courses

**CFD 150 Introduction to Child and Family Development.** 1(1-0) F,S.

The scope of this course is a study of the field of child and family development. Professional opportunities and analysis of personal proficiencies will be the focus.

**CFD 155 (CFS) Principles of Human Development.** 3(3-0) F,S.  
Basic principles that govern human development from the prenatal period to death; developmental tasks and interrelations of family members through the life span.

**CFD 160 (CFS) Principles of Development in Early Childhood.** 3(2-2) F,S.

Development of the child from conception through 5 years of age including weekly laboratory experience with preschool children. Tuberculin skin test and student observer physical exam required.

**CFD 163 (CFS) Relationships in Today's Families.** 3(3-0) F,S.  
Personal and family living in the early stages of family life cycle. Concepts and methods used in initiating, building, maintaining and enriching relationships.

**CFD 197 Introductory Topics in Child and Family Development.** 1-3, D.

Variable content course for introductory concepts in Child and Family Development. May be repeated to a total of 6 hours when topics change.

**CFD 250 (CFS) Parenting in Contemporary Society.** 3(3-0) F.  
Prerequisite: CFD 163 or permission. Explores parenting and child rearing in today's society.

**CFD 255 (CFS) Principles of Development in Infancy.** 3(2-2) F,S.  
Prerequisite: CFD 160. Child from conception through two years, including prenatal environment. Two hours laboratory experience weekly in infant-toddler child development laboratory. Tuberculin skin test and Family Care Safety Registry required.

**CFD 256 Supervised Experience in the Infant Toddler Center.** 1(0-2) F,S.

Experience in applying effective techniques that optimize infant toddler development with 2-hours per week of participation in the infant toddler laboratory. Family Care Safety Registry and negative tuberculin test required.

**CFD 257 (CFS) Principles of Development in Middle Childhood.** 3(3-0) S.

Development of the child from six through twelve years in cognitive, physical, social, emotional aspects. Contact with groups of children in this age range is arranged.

**CFD 260 (CFS) Supervised Experience in the Child Development Laboratories.** 4(2-4) F,S.

Prerequisite: CFD 160. Experience in applying the most effective techniques for maximum growth in the physical, social, emotional and mental development of the whole child. Influences of a safe and healthful environment upon the child's development. Tuberculin skin test and Family Care Safety Registry required.

**CFD 300 Special Topics in Child and Family Development.** 1-3, D.

Prerequisite: permission of department. Selected topics of contemporary interest in Child and Family Development, offered when resources and demand allow. May be repeated to a total of 6 hours when topics change. Variable Content Course.

**CFD 301 Play As Development.** 2(2-0) S.

A study of play and its relationship to children's physical, cognitive, language, moral, social, emotional, and gender role development, and how environments can be designed to facilitate learning through play. Adults role in facilitating and enhancing play of typical and atypical children.

**CFD 303 Service Learning Child and Family Development.** 1 F,S.

Prerequisite: 30 hours and concurrent enrollment in a designated service learning offering within one of the major areas of study in Child and Family Development. A service learning course incorporates a community service experience with classroom instruction to provide an integrative learning experience which addresses the practice of citizenship and promotes awareness of and participation in public affairs/service. Requires 40 hours of service to a community organization, agency, or public service provider. The community service placement and assignment will vary, depending on the specialization area and learning objectives. A list of approved placements will be available from the instructor and the Citizenship and Service Learning Office. Students are required to participate in a service learning training session(s) prior to beginning their service placement. May be repeated, but no more than 2 hours of service learning credit may count toward graduation.

**CFD 305 Multicultural Studies in Child and Family Development.** 2(2-0) D.

A study of multicultural education for young children and their families. Emphasizes communication processes, recognizes cognitive and affective development, presents effective techniques and strategies that meet the needs of young children and families with diverse backgrounds.

**CFD 350 (CFS) Seminar in Child and Family Development.** 2(2-0) S.

Prerequisite: 15 hours in area of specialization or permission. Readings, discussion and analysis of trends in child and family development.

**CFD 354 Working with the Hospitalized Child.** 2(2-0) F.

Prerequisite: CFD 255 and CFD 360. Principles, concepts, techniques, and skills in the provision of programs and services to hospitalized

children. Areas of emphasis include: reactions of children to hospitalization, importance of play, planning a play program and preparing children for medical encounters. Tuberculin skin test and Family Care Safety Registry required.

**CFD 360 Planning and Implementing Curriculum for Child Development Centers.** 4(2-4) or 5(2-6) F,S.

Prerequisites: CFD 260. Planning and implementing curriculum to meet the cognitive, emotional, physical, creative and social development needs for young children. Using literacy techniques learned and practiced in class and at the Child Development Center, the students will also share information within the community at libraries and in low-income child care facilities. Supporting young children, their families and teachers/caregivers in their environment is the focus of this course. This enhances our mission to encourage literacy in all parts of children's lives. Missouri Department of Health requires tuberculin skin test, Family Child Care Registry, and a statement of Physical Health.

**CFD 361 (CFS) Principles of Family Development.** 3(3-0) S.

Prerequisite: CFD 163 and CFD 250 or permission. Development trends occurring in family units from premarital interactions to death and/or divorce. Lectures and discussions will apply developmental principles to today's family life styles.

**CFD 365 Families in Later Life.** (Identical to GER 365) 3(3-0) F.

Prerequisite: completion of CFD 155 or CFD 163 or 45 hours or permission. Examination of the structure and function of families in later life. Topics of interest include demographic trends impacting the structure of the family, marriage, sibling relations, parent-adult child relations, grandparenthood, widowhood, and retirement. The application of family theories and their relevance to later life families will be discussed.

**CFD 400 Problems in Child and Family Development.** 1-3, D.

Prerequisite: 90 hours and permission. Independent study for those who wish additional work in specific subject areas.

**CFD 454 Therapeutic Plan Activities for Hospitalized Children.** 3(3-0) D.

Prerequisites: CFD 160, CFD 354 and CFD 455. The focus is to develop skills needed for working with ill and hospitalized children in developmental activity programs. This course explores ways in which Child Life Specialists serve children in different developmental stages and from diverse cultural environments. Hospital tours will be required for this course. A current tuberculin skin test is required.

**CFD 455 Infants and Toddlers: Development and Program Planning.** 4(3-3) F,S,Su.

Prerequisite: CFD 260 and 60 hours. A study of the infant from conception through two years with a 3-hour weekly laboratory in an infant toddler center. Application of developmentally appropriate practice through laboratory participation, portfolios, and curriculum planning. Negative tuberculin test and completion of the Family Care Safety Registry required.

**CFD 463 (CFS) Preschool Centers.** 3(2-2) S.

Prerequisite: CFD 360. Types, purposes and administration of preschool centers.

**CFD 466 Practicum in Programs for Children, Youth, Adults, and Families.** 6(0-12) F,S.

Prerequisite: CFS 120 and CFS 130; CFD 163 and CFD 360. Supervised active learning experiences with children, youth, or families in human service agencies; observation, discussion, and evaluation of the student's experiences plus seminar. Advance registration with course instructor required. May be repeated for up to 12 hours credit. Tuberculin skin test and Family Care Safety Registry required. Physical exam may be required for some placement sites.

**CFD 499 Internship in Child and Family Development.** 1-6, D.

Prerequisite: permission of subject matter professor. Off-campus, supervised experience in a cooperative program with business, government, community, or related establishments within any of the specialized areas of child and family development. In addition to the outline agency involvement, the student is (1) required to attend a beginning orientation and a follow-up seminar, and (2) complete assignments appropriate to subject matter specialization. May be repeated up to 12 hours credit.

**CFD 500 Issues in Child and Family Development.** 1-3, D.

Prerequisite: senior or graduate standing; or permission. Advanced inquiry into specialized areas of study in Child and Family Development. May be repeated to a total of 6 hours when topics change. Variable Content Course.

**CFD 532 (CFS) Family Advocacy.** 3(3-0) D.

Prerequisite: permission of instructor. A study of the advocacy process in both the public and private sectors for directing change to benefit families and children. The course involves field trips to locations where decisions are being made that impact families and children.

**CFD 533 Principles of Family Life Education.** 4(4-0) D.

Prerequisite: Junior/Senior standing. A study of the philosophical and methodological considerations in facilitating family life education programs. Field experiences are a part of this course.

**CFD 560 Family Involvement in Early Childhood Programs.** 3(2-2) F,S.

Prerequisite: CFD 260 or permission of department. A study of family involvement programs including family education, volunteerism, leadership development, and advocacy. Students are involved in practicums working with families in a variety of community settings. Family Care Safety Registry required.

**CFD 562 (CFS) Prevention of Child Abuse and Neglect.** 3(3-0) F.

The primary and secondary prevention of physical, emotional, and sexual abuse and neglect of children. Designed for professionals who work with children and families and are required by law to report suspected incidences of child abuse and neglect.

**CFD 563 (CFS) Administration of Programs for Children and Families.** 3(2-2) S.

Prerequisite: CFD 360 or permission. Types, purposes and administration of programs for children, youth and families.

*The following course is open only to graduate students.*

**CFD 650 (CFS) Seminar in Child and Family Development.** 3(3-0) S.

Prerequisite: graduate standing. Analysis of theories and trends in child and family development.

## Early Childhood Education Courses

*Admission to the Teacher Education Program and admission to the Early Childhood Education program is required to enroll in all of the following courses:*

**ECE 301 Emerging Literacy and Communication Arts.** 3 (3-0) F,S.

Prerequisite: ELE 302 and CFD 160; concurrent enrollment with ECE 302 and ECE 303; and admitted to Teacher Education Program required. This course will focus on the broad areas of emerging literacy and communication arts with particular attention to the early childhood years. The development of listening, oral language, and written comprehension skills as well as an understanding of the contribution of appropriate children's literature to literacy development will be the essential components of this course. Activities, materials, and lessons in these areas will be developed with particular attention to developmentally appropriate methodology. Monthly workshops jointly taught by College of Arts and Letters and College of Education faculty covering content of creative arts will occur. Field experiences including creative arts are a part of the course.

**ECE 302 Social Studies and Sociomoral Development.** 2(2-0) F,S.

Prerequisite: ELE 302 and CFD 160; concurrent enrollment with ECE 301 and ECE 303; and admitted to Teacher Education Program required. This course will combine the concepts found in the sociomoral domain of Project Construct as well as concepts taught in an elementary social studies curriculum. Students will develop activities, materials, and lessons that focus on the building of relationships with adults and peers, negotiating and applying rules, demonstrating confidence and creativity. Additionally, the curriculum sequences for grades Kindergarten through third, including self, home, school community, school and family, neighborhoods, and communities will be part of this course. Monthly workshops jointly taught by College of Arts and Letters and

College of Education faculty covering content of creative arts will occur. Field experiences including creative arts are a part of the course.

**ECE 303 Mathematics and Science for Young Children.** 3(3-0) F,S.

Prerequisite: ELE 302 and CFD 160; concurrent enrollment with ECE 301 and ECE 302; and admitted to Teacher Education Program required. This course will teach the student methods for the active involvement of young children in the areas of mathematics and science. Students will develop problem solving experiences and hands-on activities of these two areas. The areas of beginning mathematics concepts such as classification, seriation, and counting, as well as problem solving, applications, communication and reasoning will be part of the course. Additionally, the development of concepts in both physical, biological, and earth/space sciences and active student involvement and discovery will be included. Developmentally appropriate methodology will be presented. Monthly workshops jointly taught by College of Arts and Letters and College of Education faculty covering content of creative arts will occur. Field experiences including creative arts are a part of the course.

**ECE 401 (ELE 422) Curriculum—Early Childhood Education.** 4(4-0) F,S.

Prerequisite: ELE 302, ECE 301, ECE 302, ECE 303; concurrent enrollment with ECE 402; and admitted to Teacher Education Program required. Curriculum for early childhood education; underlying principles and applications; relationship to the skills of reading, writing, numbers, spelling, the creative arts, social studies, science. Field experiences are a part of the course.

**ECE 402 (ELE 420) Assessing Young Children.** 2(2-0) F,S.

Prerequisite: ELE 302, ECE 301, ECE 302, ECE 303; concurrent enrollment with ECE 401; and admitted to Teacher Education Program required. An overview and analysis of screening and diagnostic techniques and procedures for use by general classroom teachers in determining instructional programs for children from birth-grade three. Procedures for helping teachers develop programs for children from different cultural backgrounds and exceptional students integrated in general classrooms are included. Field experiences are a part of the course.

**ECE 490 Supervised Teaching in Infant/Toddler Settings.** 6, F,S.

Prerequisite: admitted to Teacher Education Program and completed all courses listed in program except for CFD 560 and CFD 563 which may be taken with or at the completion of supervised teaching. Students will observe and then teach under the supervision of the cooperating teacher and university supervisor. Participation in extra-curricular activities and other duties as assigned by the cooperating teacher and supervisor will be expected. Students will be involved in the development of lessons, materials, and units for infants and toddlers. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**ECE 491 Supervised Teaching in Preschool/Kindergarten Settings.** 6, F,S.

Prerequisite: admitted to Teacher Education Program and completed all courses listed in program except for CFD 560 and CFD 563 which may be taken with or at the completion of supervised teaching. Students will observe and then teach under the supervision of the cooperating teacher and university supervisor. Participation in extra-curricular activities and other duties as assigned by the cooperating teacher and supervisor will be expected. Students will be involved in the development of lessons, materials, and units appropriate for preschool and Kindergarten children. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**ECE 492 Supervised Teaching in Primary Settings.** 6, F,S.

Prerequisite: admitted to Teacher Education Program and completed all courses listed in program except for CFD 560 and CFD 563 which may

be taken with or at the completion of supervised teaching. Students will observe and then teach under the supervision of the cooperating teacher and university supervisor. Participation in extra-curricular activities and other duties as assigned by the cooperating teacher and supervisor will be expected. Students will be involved in the development of lessons, materials, and units appropriate for children in primary settings. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**ECE 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**ECE 501 Home/School/Community Relationships with Young Children and Their Families.** 3(3-0) F,S.

Prerequisite: admitted to Teacher Education Program. This course offers a transdisciplinary approach designed to enhance the student's understanding of the transactional relationship between the school, child and family. Particular emphasis is placed on family development and dynamics within a pluralistic society including the role that family functioning has on the child's total educational experience. Field Experiences are a part of the course.

*The following courses are open only to graduate students.*

**ECE 605 Field Experiences in Early Childhood Education.** 1-3, Su.

Prerequisite: permission of director. Students participate in Field Experiences in area schools and other educational settings. This course will provide field experiences with three different age groups (birth-3; 3-5; 5-8). Course is designated for graduate students needing field experiences to meet certification requirements in Early Childhood Education. Students will attend weekly scheduled class discussion sessions on campus in addition to the required field work of 15 clock hours for every credit hour. May be repeated for a maximum of three hours of credit.

**ECE 625 (ELE) Trends and Issues in Early Childhood Education.** 3(3-0) D.

Prerequisite: permission of director. A study of current trends, issues and theories related to early childhood education. Emphasis will be given to major developmental theories and research findings related to the education of young children. Included will be the application of theory and research to current practices in early childhood education.

**ECE 626 (ELE) Advanced Curriculum Development for Early Childhood Education Programs.** 3(3-0) D.

Prerequisite: permission of director. Analysis of programs, methods, materials, and activities appropriate for early childhood education programs. Emphasis will be on developing and/or selecting teaching strategies for a variety of programs such as day care centers, public school kindergartens and primary grades, Head Start Programs, private preschools, etc.

## Department of Educational Administration

196 Sicheluff Hall, Phone: 836-5392, FAX: 836-5997

Email: EdAdm@missouristate.edu

Department Website: www.missouristate.edu/edadmin

**Department Head:** Associate Professor William J. Agnew, Ph.D.

**Professors:** Allan B. Crader, Ed.D.; Barbara N. Martin, Ed.D.; Scott B. Wegner, Ed.D.

**Associate Professors:** Kenneth C. Holloway, Ed.D.; Cynthia McGregor, Ed.D.; Gerald H. Moseman, Ed.D.; Robert L. Watson, Ed.D.

**Emeritus Professors:** Lonnie Barker, Jr., Ph.D.; Harold L. Chappell, Ed.D.; Fred F. Esser, Ed.D.; C. Don Keck, Ed.D.; Robert L. Musgrave, Ed.D.; Sandra K. Wegner, Ed.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Educational Administration, M.S.Ed., Ed.S.

### Graduate Programs

The Master of Science in Education offers a major in Educational Administration with options in Elementary and Secondary. The Specialist in Education degree offers a major in Educational Administration with options in Elementary Principal, Secondary Principal and Superintendent. Also a cooperative doctoral degree with the University of Missouri-Columbia is offered. See the Graduate Catalog for details.

### Educational Administration Courses

*The following courses are open only to graduate students.*

**EAD 651 Foundations of Educational Leadership.** 3(3-0) D.

An introductory course designed for the student considering a career in educational leadership. Explores the history, basic theories, and major areas of responsibility in school leadership. EAD 651 is the first course to be taken in an administration degree program.

**EAD 652 The Secondary School Principal.** 3(3-0) D.

Prerequisite: EAD 651. An examination of the leadership responsibilities of the secondary school principal. Instructional leadership, decision-making, problem solving, effective schools correlates, the change process, school culture and school improvement concepts will be emphasized.

**EAD 653 The Elementary School Principal.** 3(3-0) D.

Prerequisite: EAD 651. An examination of the leadership responsibilities of the elementary school principal. Instructional leadership, decision-making, problem solving, effective schools correlates, the change process, school culture and school improvement concepts will be emphasized.

**EAD 654 State and National School Leadership.** 2(2-0) D.

Role and responsibilities of the local, state and federal agencies in school administration.

**EAD 657 The Administration of Instructional Programs.** 3(3-0) D.

An analysis of instructional programs and the role of the school administrator in developing learner-centered school cultures and supporting research-based instruction.

**EAD 658 Organizational Management.** 3(3-0) D.

Prerequisite: EAD 651. Emphasis is on basic administrative skills including fiscal management and building utilization as well as the skills and processes needed to collaboratively develop and maintain strategic plans.

**EAD 659 Leadership Capstone.** 3(3-0) D.

Prerequisite: SFR 690 or EAD 695. The culminating course in the EAD Master's Degree programs. The course results in the completion of the student's research major project; preparation and presentation of the student's graduation portfolio, and; completion departmental assessments.

**EAD 660 Internship – On Site.** 2 D.

Prerequisite: EAD 651. Problem-based field experiences encompassing building level, district level, or other specialized administrative or supervisory positions. Students spend specified periods of time working with experienced administrative or supervisory personnel. May be repeated to a maximum of 10 hours.

**EAD 663 Internship—Related Agencies.** 1 D.

Prerequisite: EAD 651. Problem-based field experiences with various external agencies that relate to the school administrator or supervisor. (i.e., juvenile court, law enforcement, community support services, etc.)

**EAD 664 Human Relations and Collaborative Processes.** 3(3-0) D. Designed to develop skills in effective interpersonal skills, written and oral communication within a diverse cultural community.

**EAD 665 Legal and Ethical Contexts of Schooling.** 3(3-0) D.

Explores the statutory and regulatory requirements as well as the ethical implications of policy initiatives inherent in the effective operation of a school.

**EAD 666 School Supervision and Performance Enhancement.** 3(3-0) D.

Administrative functions related to human resource management and development as well as enhancing the performance of the instructional personnel. (i.e. Recruitment, selection, retention, training, supervision, evaluation of staff.)

**EAD 667 Administration of Special Programs.** 3(3-0) D.

Designed to provide skills to establish, administer, and supervise special education services and other student programs. Programs in the area of special education, guidance, vocational education, early childhood as well as current state and federal programs affecting education are emphasized.

**EAD 695 Action Research in Educational Leadership.** 3(3-0) D.

Introduction to the research designs and analysis techniques of action research. Student will engage in activities designed to examine current best practices in the school setting through a methodical, research-based orientation with the ultimate goal of assessing the effect of innovative practices on a variety of school variables.

**EAD 699 Thesis.** 1-6 D.

Prerequisite: SFR 690. Independent research and study connected with preparation of thesis. May be repeated to a maximum of 6 hours credit.

**EAD 741 Advanced Issues in School Improvement.** 3(3-0) D.

Designed as an advanced level course for the study of barriers to learning, strategies to reduce or eliminate those barriers, stakeholder involvement, advanced strategic planning techniques and program development, in accordance with the goals and outcomes of the I.S.L.L.C. standards and the EAD Knowledge Base. The major focus of this course



is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other I.S.L.L.C. member states. The course provides an opportunity for students to identify significant barriers to learning within an educational setting, analyze the conditions of the educational setting and take specific steps to eliminate the barriers and support student success.

**EAD 742 Modern Trends in Educational Administration.** 3(3-0) D.

Designed as an advanced level course for the study of the larger contexts of education. Students will study state, multi-state and national trends/issues, analyze their effect upon local school programming and student learning, identify appropriate outside agencies for initiating collaborative relationships as well as identify adaptive leadership behaviors to respond to various trends/issues. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other I.S.L.L.C. member states. These goals and outcomes are based upon I.S.L.L.C. standards as well as the EAD Knowledge Base.

**EAD 743 School and Community Partnerships.** 3(3-0) D.

Designed as an advanced level course for the study of establishing, nurturing and sustaining effective school-community partnership programs. Students will be exposed to content and will generate material that demonstrates the ability to develop partnerships with business, higher education and other community groups which supplements the learning environment and supports the overall mission of the school as outlined by goals and objectives of the I.S.L.L.C. standards as well as the EAD Knowledge Base. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other I.S.L.L.C. member states. The course provides a broad overview of the essential elements of educational partnership programs while working with social agencies and elementary grant writing.

**EAD 744 Leadership in Professional Development.** 3(3-0) D.

Designed as an advanced level course for the study of enhancing professional performance through effective staff development and performance enhancement efforts. Students will demonstrate the ability to collaborate professionally with staff to enhance performance and promote successful teaching and learning in accordance with the goals and outcomes as outlined by I.S.L.L.C. standards as well as the EAD Knowledge Base. The course provides a broad overview of advanced elements of supervision including national teaching standards, adult learning theory, effective staff development and use of data to inform professional development efforts. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other I.S.L.L.C. member states.

**EAD 750 Politics of Education.** 3(3-0) D.

Overview of the origins and the nature and impact of political forces surrounding and influencing schools. Students will study the increasingly complex political web of American education as well as research the continuing debate dealing with local control versus the expanding role of state and federal government. This course will help the student in educational administration analyze the various core constituencies of school politics, analyze the issues/demands made in the school community, and study the intervening variables associated with school issues as well as the decisions which must be made by school policy makers.

**EAD 758 School Personnel.** 3(3-0) D.

Prerequisite: 15 graduate hours. This course will provide knowledge related to areas of personnel process such as: human resource planning, recruitment, selection, placement, induction, staff development, appraisal, compensation, negotiation, employment conditions, employee data, support staff, empowerment of staff, policies and procedures, and career paths.

**EAD 760 Field Study.** 1-4 D.

This course involves the completion of field projects conducted in cooperation with a public school district or appropriate agency. Requires a formal investigation and survey of a recognized problem within a selected institution. The nature of the investigation may also be in-depth, independent research relevant to current practice in any facet of the educational process. The subject for investigation is selected by the student with approval of the advisory committee. An oral review of the project will be presented to a selected faculty committee. May be repeated but not to exceed a total of 6 hours. A maximum of 3 hours may be counted toward the degree.

**EAD 761 (661) Human Relations.** 3(3-0) D.

Prerequisite: EAD 651 or permission. Designed to upgrade educational leaders in human relations skills. Major focus will be on effective group processing and dynamics, understanding learning styles and cultural diversity issues, and facilitating skills for school improvement.

**EAD 762 The Superintendency.** 3(3-0) D.

Prerequisite: 15 graduate hours. Analysis and discussion relating to current problems of school management involving decision making, data processing, operations, research, work and wages, unions and management, and purchasing.

**EAD 763 Curriculum Design and Evaluation.** 3(3-0) D.

Prerequisite: 15 graduate hours. A course designed to investigate and analyze current and innovative instructional programs. Special emphasis is given to national reports on educational practices and the development of a model school of the future.

**EAD 764 School and Community Relations.** 3(3-0) D.

Prerequisite: 15 graduate hours. An examination of the various strategies involved in establishing effective internal and external communications. The responsibilities of boards of education, administrative officials, staff personnel, students, and the community will be emphasized.

**EAD 765 School Law.** 3(3-0) D.

Prerequisite: 15 graduate hours. Constitutional statutory and case law that relates to all staff personnel, students, school district and other allied governmental units is investigated, analyzed and discussed. Special emphasis is given to the study of contracts, dismissals, tenure, retirement, pupil injuries, liability of school personnel, school district and board member's legal rights and responsibilities.

**EAD 766 Public School Finance.** 3(3-0) D.

Prerequisite: 15 graduate hours. A study of school budgeting procedures, revenue and expenditure accounting, problems related to local, state and federal financing of public school operations. The Missouri Uniform Accounting System for Public Schools is utilized in the development of a major school finance project.

**EAD 767 School Plant Planning and Maintenance.** 3(3-0) D.

Prerequisite: 15 graduate hours. Designed to familiarize students with the development of master plans and educational specifications for a school facility. Attention is given to site and building evaluations, barrier-free facilities, bond issues, remodeling, energy conservation, contractor and architectural responsibilities, and equipping and maintaining school plants.

**EAD 770 Specialized Topics in Educational Leadership.** 1-3 D.

Designed to upgrade the school administrator or leader's knowledge and skills in specialized areas of current interest and need. May be repeated to a total of 6 hours. Variable Content Course.

**EAD 795 Research in Administrative Practice.** 3(3-0) D.

The study of research in the field of educational administration. This course integrates research skills and professional administrative practices. Students interpret, evaluate and apply research skills enabling them to design a Field Study proposal which is required for the Specialist degree in Educational Administration.

*The following courses are open only to students admitted into the Educational Administration (Ed.D.) doctoral program offered cooperating with the University of Missouri-Columbia.*

**EAD 801 Leadership Theory and Practice.** 4(4-0) FO.

Advanced study of leadership theories, concepts, and inquiry as applies to educational organizations. The course will explore leadership theories, power and authority in organizations, leader effectiveness, and organizational reform. Emphasis will be placed on understanding leadership in organizations through application and extension of leadership theories in practice.

**EAD 802 Quantitative Methods in Educational Research I.** 3(3-0) SE.

Requires concurrent enrollment in EAD 803. This course focuses on types of regression analysis and includes the following topics: simple linear regression, multiple regression, and semi-partial correlation, regression with categorical variables, categorical and continuous variables within the same model, Multilevel analysis (Hierarchical linear modeling), and structural equations. The emphasis in this class is on conceptual and practical understanding, rather than on computation. Goals are for the students to: (a) understand the basic assumptions and models underlying regression analysis, (b) use a statistical analysis package to conduct regression analysis, (c) read and interpret the output from a statistical analysis package, and (d) use this output to write a results sections.

**EAD 803 Advanced Quantitative Inquiry in Educational Research.** 1(1-0) SE.

Requires concurrent enrollment in EAD 802. This course is part of the statewide collaborative doctoral program. It is intended to be the application component of the Advanced Quantitative Analysis and Application course (EAD 802). This course will emphasize a wide range of instructional methodologies, cooperative activities, problem-based learning and practical application of quantitative techniques, including computer application. The students will be able to design, conduct, and report research to address problems of practice using quantitative action research methodologies. A collaborative field study project is required.

**EAD 804 Content and Context of Learning.** 3(3-0) D.

Students will develop the knowledge and skills for examining, designing, and implementing school and classroom conditions that support quality learning experiences for all students. This course theme is about learning, and those issues that enhance and detract from quality learning for all. Throughout the course, participants and instructors will model optimum learning conditions and strategies. Students will be asked to demonstrate a thorough understanding of those conditions and competencies through study, critique, development, implementation of authentic learning experiences for their colleagues. Resources to support the learning experiences will include audio-visual materials, readings, internet, and simulations. Authentic assessment will be used to determine each student's level of competence in the course content.

**EAD 805 Team Building and Group Dynamics.** 1(1-0) D.

The fact that educational leaders spend a significant amount of their time interacting with people and people concerns strongly suggests the need for the development of effective human relations skills. This one hour doctoral level seminar will focus on understanding key concepts and methodologies of team based management and group dynamics as well as the critical skills essential in successful implementation of collaborative team building within organizations. Through the exploration and development of the underlying principles of these concepts, course participants will examine a leadership/communication within a K-16 organization and with members of that organization, they will design a collaborative problem-solving team to address a problem of practice.

**EAD 806 Leadership Inquiry.** 1(1-0) D.

This seminar focuses on understanding policies related to doctoral dissertation research as set by the University of Missouri-Columbia Graduate School. In addition, the seminar will explore the use of multiple search sources for information, human subjects review requirements, and research ethics. The course will also examine the exploration and design of leadership research focused on addressing problems of practice.

**EAD 807 Program Planning and Evaluation.** 3(3-0) D.

This course will explore the theory and practice of evaluation of educational programs including evaluation models, research methods and design strategies to measure program outcomes, especially student and school performance. In addition, skills in evaluating educational personnel and effective schools will be discussed.

## Department of Library Science

Duane G. Meyer Library, Phone: 836-4525, FAX: 836-4764  
Email: Library@missouristate.edu

**Department Head and Dean:** Professor Karen L. Horny, M.A.L.S.

**Professors:** Lynn S. Cline, M.A., M.S. in L.S.; Neosha A. Mackey, M.B.A., M.L.S.; Marilyn McCroskey, M.A., M.S. in L.S.; J.B. Petty, Ph.D.

**Associate Professors:** Donald Andrew Beisswenger, Ph.D.; James A. Coombs, M.A. in L.S., C.A.S.; Cheryl Jones, M.L.S.; Edward S. Proctor, M.A., M.L.S.; David E. Richards, M.A., M.L.I.S.

**Assistant Professors:** David L. Adams, M.A. in L.S.; Dea A. Borneman, M.A. in L.S.; Edward DeLong, M.A., M.L.S.; Charlotte Dugan, M.A. in L.S., C.A.S.; Betty Evans, M.A. in L.S.; Crystal D. Gayle, M.L.I.S.; Andrew Lokie, M.A.; Vern Reeder, M.S. in L.S.; Byron Stewart, M.A. in L.S.; Tammy R. Stewart, M.A. in L.S.; Suzanne Teghtmeyer, M.L.I.S.; Kyle D. Winward, M.L.I.S.

**Emeritus Professors:** C. Lynne Freeman, M.S. in L.S.; Willa J. Garrett, M.A. in L.S.; Walter H. Green, Jr., M.M., M.S. in L.S.; Sarada Kotamraju, M.S.L.S.; Florence Maltby, M.S. in L.S., C.A.S.; Julian H. Pace, M.L.S.; Mary Elizabeth Reid, B.S. in L.S.

## Minors

### Library Science

#### Bachelor of Arts

#### Bachelor of Fine Arts

#### Bachelor of Science

- A. LIS 101(1), 500(2), 504(3), 506(3), 508(3)  
B. Select six hours from: LIS 502(3), 510(3), 512(3), 514(3), 518(1), 524(3), 528(3), 530(3), 532(3), 540(3), 560(3), 596(1-6), 597(1-3), 599(2-3) for a total of 18 hours.

### Library Science

#### Bachelor of Science in Education

#### (Non-Certifiable)

- A. LIS 500(2), 504(3), 506(3), 508(3); LIS 510(3) or IMT 365(3); LIS 528(3), 599(2-3)  
B. Select one course from: LIS 512(3), ENG 334(3), 336(3), 338(3) for a total of 22 hours.

Note: Missouri certification as Library Media Specialist requires a teaching certificate in a content field and 30 hours of library science coursework, including IMT 665(3) and either LIS 540(3) or IMT 664(3). Check with the Department of Library Science for information regarding certification requirements. A minimum GPA of 2.50 (Missouri State and transfer grades combined) in the certificate subject area is required for state certification.

## Graduate Program

Missouri State collaborates with the University of Missouri-Columbia to provide access to courses that can be applied to the Master of Arts in Library and Information Science, an ALA-accredited program offered by the University of Missouri-Columbia. In addition, the department also offers courses applicable toward the School Library Media Specialist certification. For more information, contact the Library.

## Library Science Courses

**LIS 101 Introduction to the Library.** 1(1-0) F,S.

Introduces the concept of information in its various forms, describes libraries as information storage and retrieval centers, and prepares students to successfully identify, locate, and use information.

**LIS 500 Libraries and Librarianship: An Introductory Seminar.** 2(2-0) D.

Types of libraries; their functions and objectives; internal organization and procedures; duties and qualifications of librarians; professional organizations and literature; various issues and technologies reflecting the changing nature of librarianship; and introduction to professional portfolio development.

**LIS 502 History of Books and Libraries.** 3(3-0) D.

History of books and libraries from the earliest times to the present; influence and importance of the book and the library in society throughout history.

**LIS 504 Reference.** 3(3-0) D.

Prerequisite: LIS 500 or permission of department head. An introduction to basic, general print and electronic reference sources.

**LIS 506 Collection Development and Acquisitions.** 3(3-0) D.

Prerequisite: LIS 500, or permission of department head. Principles of collection development including selection aids, review media and collection evaluation; methods of selection and acquisition.

**LIS 508 Cataloging and Classification.** 3(3-0) D.

Prerequisite: LIS 500 or permission of department head. Basic cataloging and classification; subject headings; cataloging print and non-print material; MARC records; various types of traditional and electronic catalogs.

**LIS 510 Utilization and Integration.** 3(3-0) D.

Prerequisite: LIS 500 or permission of department head. Focuses on utilizing the library media center and integrating its program and resources into the whole school curriculum; emphasizes the multiple learning styles of students, the role of the library media specialist as teacher, and the use of technology in the library media center program and school curriculum.

**LIS 512 Reading Guidance for Young Adults.** 3(3-0) D.

The study of reading interests and habits of high school age young adults. Methods of meeting the needs of different types of readers and stimulating reading interest through library collections and services.

**LIS 514 Advanced Reference.** 3(3-0) D.

Prerequisite: LIS 504. Study of specialized reference sources in the humanities, social sciences, sciences and development of in-depth search techniques.

**LIS 518 Service Learning in Library Science.** 1(1-0) D.

Prerequisite: concurrent registration in an LIS course designated as a service learning offering. This one-hour service component for an existing course incorporates community service with classroom instruction in library science education. It provides an integrated learning experience, addressing the practice of citizenship and promoting an awareness of and participation in public affairs. It includes 40 hours of service benefiting an external community organization, agency or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated, but no more than two hours of service learning credit may count toward graduation.

**LIS 520 Production and Application of Multimedia Materials in Library Media Centers.** 3(3-0) D.

Prerequisites: LIS 500 and LIS 510. Builds on concepts introduced in LIS 510. Emphasis will be placed on multimedia project planning, instructional design, production techniques and processes as they relate specifically to the library media center program and its integration into the whole school curriculum to support teaching and learning activities. Includes web design, video editing, evaluation and application of electronic resource for school libraries.

**LIS 524 Electronic Reference.** 3(3-0) D.

Principles involved in identifying and selecting information sources, preparing search strategies and utilizing resources. Emphasizing but not limited to the following: CD-ROM and online databases, online public access catalogs and Internet resources. Includes practice time performing searches using various resources.

**LIS 528 Library Media Administration.** 3(3-0) D.

Prerequisite: LIS 500 and two of the following: LIS 504, 506, 508; or permission of department head. Organization and administration of libraries with emphasis on school library media center administration. Portfolio checkpoint #2.

**LIS 530 Children's Librarianship: Birth through Age 9.** 3(3-0) D.

Fundamentals of children's librarianship for both public librarians and school library media specialists, including collection development, programming, and current issues.

**LIS 532 Library Resources and Services for Grades 4-8.** 3(3-0) D.

An introduction to a broad selection of books, audiovisuals, and electronic resources for grades 4-8 and how these can be used to enrich the curriculum. Emphasis will be placed on integration of a variety of resources in both content area studies and "stand alone" information literacy instruction.

**LIS 534 Introduction to Storytelling.** 1(1-0) Su.

Introduction to the art of storytelling and development of skills in finding, preparing, and delivering stories to grades K-12; analysis and

review of storytellers' resources; exploration of a wide variety of styles and methods of telling to facilitate the planning and presentation of storytelling programs in the school media center or classroom and include traditional storytelling across the curriculum.

**LIS 540 Information Technologies.** 3(3-0) D.

Prerequisite: LIS 500, or permission of department head. An introduction to applied information technologies applicable to libraries, including uses of computers in libraries, computer hardware and software needs of libraries, and issues related to access and evaluation of information.

**LIS 560 Legal Reference.** 3(3-0) D.

The study of basic, legal reference materials used by librarians and the general public in a library environment. Primary and secondary sources will be addressed, in both print and electronic formats. Emphasis will be on using the legal resources in a school library, public library or academic library.

**LIS 596 Independent Study.** 1-6, D.

Prerequisite: LIS 500 and two of the following: LIS 504, LIS 506, LIS 508, or LIS 528; or permission of department head. Individual projects or study under the supervision of members of the library faculty. May be repeated to a total of 6 hours.

**LIS 597 Special Topics.** 1-3, D.

Prerequisite: permission. Selected topics in substantive areas of librarianship such as automation, collection development and resource sharing, and the politics of librarianship. Offered when resources and demand allows. May be repeated to a total of 6 hours when topic changes. Variable Content Course.

**LIS 599 Library Practicum.** 2-3, D.

Prerequisite: LIS 500, LIS 504, LIS 506, LIS 508 and LIS 528; or permission of department head. Supervised practical work experience in an appropriate library designed to cover all aspects of librarianship. Portfolio checkpoint #3.

## School of Teacher Education

207 Hill Hall, Phone: 836-6769, FAX: 836-6252

Email: SchoolofTeacherEducation@missouristate.edu

**Director:** Professor Fred H. Groves, Ph.D.

**Professors:** Donna A. Beardsley, Ph.D.; David W. Brown, Ed.D.; J. Deanne Camp, Ed.D.; Christopher J. Craig, Ed.D.; Jane E. Doelling, Ed.D.; Linda Garrison, Ph.D.; David L. Hough, Ph.D.; Beth Hurst, Ph.D.; Janet L. Nazeri, Ed.D.; Dale G. Range, Ed.D.; Roger N. Tipling, Ed.D.

**Associate Professors:** Roberta J. Aram, Ph.D.; Paris A. DePaepe, Ph.D.; John M. Hail III, Ph.D.; Steven P. Jones, Ph.D.; Sarah B. Nixon, Ph.D.; Deborah A. Powell, Ph.D.; Rebecca Swearingen, Ed.D.; Cynthia K. Wilson, Ph.D.

**Assistant Professors:** Paul M. Ajuwon, Ph.D.; David R. Goodwin, Ph.D.; Susan L. Jones, Ph.D.; Barbara J. Michels, Ph.D.; Cathy J. Pearman, Ph.D.; Eric C. Sheffield, Ph.D.; Randall Wallace, Ph.D.

**Lecturers:** Julie Anderson-Ituarte, M.A.; Cheryl A. Bell, Ed.S.; Brad A. Brown, M.S.; Heather L. Sexton, M.S.Ed.; Gloria Jones, M.S.; V. Jane Ward, Ed.S.

**Emeritus Professors:** L. Dale Allee, Ph.D.; Michael L. Bell, Ed.D.; N. June Brown, Ed.D.; J. Wordy Buckner, Ed.D.; Ruth V. Burgess, Ph.D.; Genevieve R. Cramer, Ph.D.; Haldon D. Funk, Ed.D.; Ralph G. Hawkins, Ed.D.; John F. Newport, Ed.D.; Dorothy F. Padron, M.A.; Everett R. Payne Jr., M.A.; James R. Pollard, Ed.D.; Leonila P. Rivera, Ed.D.; Donald E. Sater, Ed.D.; Barbara A. Sperling, Ed.D.; Hugh L. Strawn, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – all programs.

## Majors

### Elementary Education

#### Bachelor of Science in Education (Certifiable grades 1-6)

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. (See application procedures at the beginning of the College of Education section of catalog.)

In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B, C, and D; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades. Additional State Board of Education certification rules require passing scores on all portions of the College Basic Academic Subject Examination (C-BASE), and further requires a minimum score of 265, and successful completion of the appropriate Praxis II Examination Specialty Area Test prior to Supervised Teaching with a score equal to Missouri's qualifying score.

The curriculum for elementary teaching leads to the degree of Bachelor of Science in Education and carries with it an initial professional certificate (IPC) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education. Holders of this elementary certificate may be employed to teach in grades 1-6.

To assure an optimal pre-service teacher training experience and adhere to quality standards established by the Missouri State Department of Education and the National Council for Accreditation of Teacher Education, all students seeking the Bachelor of Science in Education – Elementary (grades 1-6 certification) are required to enroll in a 14 credit hour block of courses in the semester preceding student teaching. This block of courses is taken two days per week and includes ELE 400, 425, 429, 434, 438, 440. An extensive field experience in area public school classrooms is included in this block, and students must commit to two full school days per week during that semester which equates to 7:30 a.m. to 4:00 p.m. This time commitment may fall on Monday-Wednesday or Tuesday-Thursday, depending on scheduling for that particular semester.

A. General Education (see General Education section of catalog) (43-54 hours)

Specific courses required for major and/or certification which may be used to satisfy General Education Requirements

1. Basic Required Courses

a. English Composition (6 hours required): ENG 110(3) and ENG 210(3)

- b. Mathematics: Completion of general education requirement with a grade of "C" or better. MTH 130(3) recommended.
- c. Public Speaking: COM 115(3)
2. Areas of Inquiry
  - a. Natural World: PHY 101(4) and BIO 100(4)
  - b. Culture and Society Social Sciences Perspective: ECO 155(3)
  - c. Self-Understanding Social-Behavioral Perspective: PSY 121(3)
  - d. Courses used to meet the Humanities and the Creativity and Vision Perspectives must have two (2) different course codes to meet state certification requirements with one (1) course from either Art or Music to meet state certification requirements. ART 200 or MUS 241 recommended.
3. Public Affairs/American Studies
  - a. HST 121(3)
  - b. PLS 101(3)
- B. Other courses required for degree (6 hours)  
GRY 100(3), HST 122(3)
- C. Degree Requirements for Teacher Certification (13 hours)
  1. Mathematics: MTH 320(3) and MTH 360(3)
  2. Health: PED 358(3)
  3. Earth Science: GRY 240(4)
- D. Areas of Concentration (minimum 21 hours)  
Elementary education majors are required by DESE to have a twenty-one hour area of concentration. The elementary education program has been structured to include two areas of concentration with a minimum of twenty-one (21) hours in each: social science and communication arts. Therefore, no additional hours will be required to meet the area of concentration.
- E. Program Option (minimum of 12 additional semester hours)  
Elementary Education majors must select at least one of the following program options:
  1. In consultation with an advisor, complete a minimum of twelve (12) semester hours additional coursework in one of the following programs: Early Childhood, Middle School, Special Education, or Special Reading Teacher. Courses may be selected only with advisor approval. At least one course must be taken at the upper-division level. No courses utilized to satisfy other requirements on this degree may be utilized to meet this option. This option will not necessarily meet requirements for an additional endorsement certification.
  2. In consultation with an advisor, complete twelve (12) semester hours additional coursework in an individualized program option. The area(s) chosen may be in any subject matter in which a major or minor is offered with courses selected only with advisor approval. At least one course must be taken at the upper-division level. No courses utilized to satisfy other requirements on this degree may be utilized to meet this option. This option will not necessarily meet requirements for an additional endorsement certification.
  3. In consultation with an advisor, earn a minor offered on B.S.Ed. A list of those minors is given in the "Academic Programs and

Requirements" section of this catalog. Courses taken to satisfy requirements in A & B above may also be utilized to meet a portion of this option; however, a minimum of twelve new hours additional coursework must be completed to meet the program option. At least one course must be taken at the upper-division level. An earned minor will not necessarily meet requirements for an additional endorsement certification.

- F. Professional Education (53-54 hours)  
(NOTE: A grade of "C" or better in each course is required for state certification.)
1. Foundations of Teaching: EDC 150(1), 350(3); ELE 302(3), PSY 385(3); SPE 310(3)
  2. Teaching Methods: IMT 365(3); ENG 334(3); ELE 400(3), 425(3), 429(2), 434(2), 438(2), 440(2); RDG 318(3), 420(3), 421(2)
  3. Clinical Experiences: ELE 495(6), 496(6)
- G. Specific Requirements for Bachelor of Science in Education degree (see "Academic Programs and Requirements" section of catalog).
- H. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Middle School Education

#### Bachelor of Science in Education (Certifiable grades 5-9)

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. (See application procedures at the beginning of the College of Education section of catalog.)

Candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B and C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades. In addition, candidates are required to obtain a score of 265 on all sub-categories of the College Basic Academic Subject Examination (C-BASE) and successful completion of the appropriate Praxis II Examination prior to Supervised Teaching, in their chosen middle school content subject area with a score equal to Missouri's qualifying score.

The curriculum for middle school teaching leads to the degree of Bachelor of Science in Education and carries with it an initial professional certificate (IPC) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education. Holders of this middle school certificate may be employed to teach in grades 5-9.

- A. General Education (see General Education section of catalog) (43-54 hours)

Specific courses required for major and/or certification which may be used to satisfy General Education Requirements

1. Basic Required Courses
  - a. English Composition (6 hours required): ENG 110(3) and ENG 210(3)
  - b. Mathematics: Completion of general education requirement with a grade of "C" or better. MTH 130(3) recommended.
  - c. Public Speaking: COM 115(3)
2. Areas of Inquiry
  - a. Natural World: PHY 101 (4) and BIO 100(4)
  - b. Culture and Society/Social Sciences Perspective: GRY 100 (3) is required if Social Science is chosen as an area of Subject Matter Emphasis. ECO 155 cannot be double-counted if Social Science is chosen as an area of Subject Matter Emphasis.
  - c. Self-Understanding/Social-Behavioral Perspective: PSY 121(3)

- d. Courses used to meet the Humanities and the Creativity and Vision Perspectives must have two (2) different course codes. ART 200 or MUS 241 recommended.

3. Public Affairs/American Studies
  - a. HST 121(3)
  - b. PLS 101(3)

- B. Degree Requirements for Teacher Certification (19 hours)

1. AST 115(4) or GLG 110(4) or GRY 135(4) or 240(4) or 142(4)  
(NOTE: GRY 240 is required if Science is chosen as an Area of Subject Matter)
2. ENG 338(3), MTH 320(3), 343(3), PED 358(3)
3. HST 122(3)

- C. Area of Subject Matter Emphasis (42 hours)

Students must complete two areas of specialization consisting of 21 credit hours within each subject for a total of 42 hours. This requirement is met by adding nine hours of general education (section A) and/or degree requirements (section B) courses in each area of emphasis to 12 additional hours in each area of emphasis. The areas of emphasis are: Language Arts (grades 5-9); Mathematics (grades 5-9); Science (grades 5-9); and Social Sciences (grades 5-9). Following are the lists of courses identified for Language Arts, Mathematics, Science, and Social Sciences. Note that each contains nine hours of general education and/or degree requirements (bolded courses). Underlined courses are those that cannot be double-counted as General Education and Area of Subject Matter Emphasis.

1. Language Arts Emphasis (21 hours total): **ENG 110(3), 210(3); ENG 338(3);** 390(3), 521(3); THE 205(3); and one of the following courses: ENG 351(3), 354(3), 380(3), 533(3), 534(3), 582(3)
2. Mathematics Emphasis (21 hours total): **MTH 130(3), 320(3), 343(3),** 479(3); Choose 1 from 135(3), 138(5), 261(5), 280(5), 315(3), 575(3); choose one from 360(3), 460(3); choose one from 377(3), 261(5) (if not used previously)
3. Science Emphasis (24 hours total): **BIO 100(4); PHY 101(4); GRY 240(4)** required in degree requirements for this subject matter emphasis and also counted in 24 hours total: CHM 105(5); BIO 205(2); GRY 108(3), PHY 501(2)
4. Social Sciences Emphasis (24 hours total): **HST 121(3), 122(3); PLS 101(3); HST 101(3), 102(3); ECO 155(3); GRY 100(3);** one course from HST 335(3), 342(3), 350(3), 380(3), 381(3)

- D. Professional Education (46 hours)

(NOTE: A grade of "C" or better in each course is required for state certification.)

1. Foundations of Teaching: EDC 150(1), 350(3); IMT 365(3); MID 421(2); PSY 360(3); SPE 340(2)
2. Teaching Methods: MID 425(2), 439(3); RDG 318(3), 474(2)
3. Choose two of the following, per areas of Subject Matter Emphasis chosen:
  - a. ENG 405(3), if Language Arts Area of Emphasis
  - b. MTH 409(3), if Mathematics Area of Emphasis
  - c. SCI 414(3), if Science Area of Emphasis
  - d. HST 418(4), if Social Sciences Area of Emphasis
4. Clinical Experiences: SEC 302(4); MID 493(6), 494(6)

- E. Specific Requirements for Bachelor of Science in Education degree (see "Academic Programs and Requirements" section of catalog).

- F. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Special Education/Cross Categorical

#### Bachelor of Science in Education (Certifiable grades K-12)

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree. (See application procedures at the beginning of the College of Education section of catalog.)

In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B and C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades. Additional State Board of Education certification rules require passing scores on all portions of the College Basic Academic Subject Examination (C-BASE) and successful completion of the appropriate Praxis II Examination prior to Supervised Teaching with a score equal to Missouri's qualifying score.

The curriculum for special education teaching leads to the degree of Bachelor of Science in Education and carries with it an initial professional certificate (IPC) to teach in the state of Missouri. The program is accredited by the Missouri State Department of Elementary and Secondary Education. Holders of this special education certificate may be employed to teach in grades K-12 in Cross Categorical settings and other mild/moderate special education settings.

**A. General Education** (see General Education section of catalog) (43-54 hours)

Specific courses required for major and/or certification which may be used to satisfy General Education Requirements

**1. Basic Required Courses**

- a. English Composition (6 hours required): ENG 110(3) and ENG 210(3)
- b. Mathematics: Completion of general education requirement with a grade of "C" or better. MTH 130(3) recommended.
- c. Public Speaking: COM 115(3)

**2. Areas of Inquiry**

- a. Natural World : PHY 101(4) and BIO 100(4)
- b. Culture and Society/Social Sciences Perspective: ECO 155(3)
- c. Self-Understanding/Social/Behavioral Perspective: PSY 121(3)
- d. Courses used to meet the Humanities and the Creativity and Vision Perspectives must have two (2) different course codes to meet state certification requirements. ART 200 or MUS 241 recommended.

**3. Public Affairs/American Studies**

- a. HST 121(3) or HST 122(3)
- b. PLS 101(3)

**B. Degree Requirements for Teacher Certification** (9 hours)

- a. Mathematics: MTH 320(3)
- b. English: ENG 334
- c. Geography: GRY 100(3)

**C. Professional Education** (83 hours)

(NOTE: A grade of "C" or better in each course is required for state certification.)

1. Foundations of Teaching: EDC 150(1), 350(3); PSY 360(3); SPE 310(3), 320(3), 321(2), 345(3), 346(2), 550(3)
2. Teaching Methods: IMT 365(3); ELE 429(2); PED 545(3); RDG 420(3), 421(2), 574(3); SPE 306(2), 450(3), 488(3), 510(3), 560(3), 581(3), 582(3), 583(3), 584(3)
3. Clinical Experiences: SPE 491(2), 492(2), 493(2), 495(6), 496(6)

**D. Specific Requirements for Bachelor of Science in Education degree** (see "Academic Programs and Requirements" section of catalog).

**E. General Baccalaureate Degree Requirements** (see "Academic Programs and Requirements" section of catalog)

### Certification

Certification for three single categorical areas, Behavioral Disordered, Learning Disabled, and Mentally Handicapped, may be obtained by completing an additional hour of practicum per single category (SPE 591). This is in addition to the introduction, methods, and practicum courses identified under the professional education section. Any student seeking special education certification should obtain guidance from a Special Education Advisor, Hill Hall 202.

## Minor

### Developmental Reading Bachelor of Science in Education (Non-Certifiable)

The minor in reading is designed to strengthen a classroom teachers' knowledge for teaching reading and developing literacy. Minimum of 23 hours required.

- A. RDG 318(3) or 474(2); 420(3), 574(3); ENG 334(3) and 338(3) or ENG 536(3)
- B. Select additional electives from the following to bring total to 23 hours: PSY 331(3), 441(3); SPE 488(3), 560(3); SPE 584(3) or CSD 312(3); or other electives approved by the School of Teacher Education. In consultation with the advisor a student may select from the elective offerings, courses which lead to Missouri certification as a Special Reading Teacher K-12.

## Graduate Program

The Master of Science in Education degree offers majors in Elementary Education, Instructional Media Technology, Reading, Special Education, and Secondary Education. A Master of Arts in Teaching is also offered. See the Graduate Catalog for details.

## University Certificate – Graduate

A graduate level certificate program is available in Instructional Technology Specialist. See Graduate Catalog for details.

## Early Childhood, Elementary and Middle School Education Courses

**Admission to the Teacher Education Program is required to enroll in all of the following courses.**

**EEM 305 (EAS) Field Experiences in Education.** 1-2 (0-2, 0-4) F,S. Prerequisite: admitted to Teacher Education Program. Student attends scheduled discussion sessions on campus and participates in field experiences at Greenwood Laboratory School and/or area schools. Designed for transfer students who have partially completed the field experiences requirement and students working on a certification which requires a second field experience.

**EEM 399 (EAS) Problems in Education.** 1-3 F,S. Prerequisite: admitted to Teacher Education Program and permission of department head. Independent research conducted on topics relevant to the field of education. The student and instructor mutually agree upon the direction and extent of the project. Credited only on the B.S. in Education degrees. May be repeated to a maximum of 3 hours credit.

**EEM 576 (EAS) Topical Issues in Education.** 1-5 D. Prerequisite: permission may be required, see schedule. To develop further understanding and skills in the improvement of teaching procedures, curriculum, supervision, or administration. Each course is concerned with a single topic. Number of class hours determined by semester hours of credit. A maximum of 3 hours may be used on a degree program. Variable Content Course.

**Approved recurring course topic:**

**B.E.A.R.S. Seminars.** 1(1-0) F.

A series of seven (7) seminars with different topics designed to enhance and develop further understanding and skills in the improvement of teaching procedures for beginning educators. Seminars are offered monthly, with the exception of December, beginning in September and ending in April. Participation in at least six (6) of these seminars is required for credit. Participants will receive an "I" grade for the course due to the course extending through the spring semester. Grades will be changed at the end of the spring semester

as requirements are met. This course is available to both beginning and veteran educators and satisfies the initial certification requirement of attending a beginning teacher assistance program with a college or university. Variable Content Course.

*The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.*

**EEM 696 (EAS) Problems in Education.** 1-3 D.

Specific problems in education related to needs and interests of the student. May be repeated to a total of 3 hours.

**EEM 699 Thesis.** 1-6 D.

Prerequisite: SFR 690. May be repeated to a maximum of 6 hours credit.

## Education Courses

**EDC 150 (SFR) Introduction to Teaching.** 1(1-0) F,S.

An introduction to the teaching profession including an introduction to the teaching standards and the professional portfolio process, observations, projects and information designed to aid students entering the teaching profession. May be taken concurrently with SEC 302, ELE 302 or SPE 310 provided all respective prerequisites are met.

**EDC 199 Clinical Experiences in Teaching.** 2 F,S.

Prerequisite: approved application to earn academic credit for two (2) years experience as a Teacher's Aide/Assistant, as permitted by DESE Rule 5 CSR 80-805.040; previous or concurrent enrollment in professional education coursework; and permission of instructor. Conducted teaching activities by students during aiding/assisting experiences, under the direction of the cooperating teacher and permission of a designated school principal, are verified as comparable to and demonstrating similar competencies of those expected by conventional student teachers. Students also participate in professional development activities, determined to be appropriate by the instructor. This course is credited only on B.S. in Education or appropriate master's-level certification programs.

**EDC 350 School and Society.** 3(3-0) F,S.

Prerequisite: admitted to Teacher Education Program; C grade or better in SEC 302 or program equivalent; PSY 360 or concurrent enrollment. This class examines the nature and history of schooling in America and the teaching profession, the purposes and goals of education, and educational philosophy. It also explores social, legal, and political issues connected with teaching and learning, diversity, racism, sexism, and the effects of social class on educational success. Cannot receive credit for both SFR 250 and EDC 350.

*The following course is open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following course.*

**EDC 686 Research Seminar in Education.** 1-3, F,S.

Prerequisite: SFR 690. An in-depth study of chosen topic in K-12 education leading to the guided development and completion of an extensive research paper or major creative work.

## Elementary Education Courses

**ELE 300 Service Learning in Elementary Education.** 1, D.

Prerequisite: EDC 150 and completion of 30 hours; and concurrent registration in an ELE course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Elementary Education to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of an participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assign-

ments is available from the instructor and the Citizenship and Service Learning Office. No more than 2 hours of service learning may count toward graduation.

**ELE 302 Introduction to Elementary Education and Clinical/Field Experience.** 3(2-2) F,S.

Prerequisite: initial CBASE taken, EDC 150 or concurrent enrollment if 30 hours completed and all requirements met. An overview of elementary school organization, management techniques, and personalized teaching styles for use with children including those from various cultural backgrounds and exceptional children who are mainstreamed in regular classrooms. Students will participate in a 30 clock hour field experience at Greenwood Laboratory School and/or area elementary schools. A grade of "C" or better is required in this course to student teach. Required first portfolio checkpoint will occur in this course.

*Admission to the Teacher Education Program is required to enroll in all of the following courses.*

**ELE 400 Elementary Integrated Methods and Practicum.** 3(1-4) F,S.

Prerequisite: Concurrent enrollment in PED 400 required when enrolling in ELE 400 for 2 credit hours. SPE 310 and concurrent enrollment in ELE 425 and/or ELE 429 and/or ELE 434 and/or ELE 438; and admitted to Teacher Education Program. Comprehensive practicum application of techniques and materials for promoting learning in the arts and physical education with language arts, mathematics, science, social studies, in area school classrooms where students will plan, teach, and assess integrated learning opportunities in the elementary core and integrated arts curriculum.

**ELE 425 Developing Children's Communication Potentials.** 3(2-2) F,S.

Prerequisite: ELE 302 and SPE 310 and RDG 420 and RDG 421 and 6 hours of English and admitted to Teacher Education Program and permission of department head. A study of the development of language and communication abilities, procedures and instruments for assessing language development, and techniques and materials for promoting development in communication skills for elementary and middle school programs. A comprehensive field experience in area school classrooms is required as a part of this course.

**ELE 429 Teaching of Mathematics in Elementary Schools.** 2(1-2) F,S.

Prerequisite: ELE 302 and SPE 310 and MTH 320 and MTH 360 and admitted to Teacher Education Program and permission of department head. Emphasis upon diagnosis of skill level development, teaching basic mathematical skills, and individualizing instruction in mathematics for elementary and middle school programs. A comprehensive field experience in area school classrooms is required as a part of this course.

**ELE 434 Teaching Science in Elementary Schools.** 2(1-2) F,S.

Prerequisite: ELE 302 and SPE 310 and 12 hours of science (one biology, one physical and one earth science) and admitted to Teacher Education Program and permission of department head. Current issues and approaches in teaching elementary school science to children, including exceptional children who are mainstreamed in regular classrooms. A comprehensive field experience in area school classrooms is required as a part of this course.

**ELE 438 Teaching of Social Studies in Elementary Schools.** 2(1-2) F,S.

Prerequisite: ELE 302 and SPE 310 and 8 hours of history and/or social science and admitted to Teacher Education Program. Emphasis upon teaching social studies, skills generalizations, attitudes, and values and the development and use of appropriate learning materials and evaluation instruments for elementary and middle school programs. A comprehensive field experience in area school classrooms is required as a part of this course.

**ELE 440 Classroom Management and Assessment in the Elementary Classroom.** 2(1-2) F,S.

Prerequisite: ELE 302 and SPE 310 and concurrent enrollment in ELE 425 and/or ELE 429 and/or ELE 434 and/or ELE 438 and admitted to Teacher Education Program. Planning, constructing, using, and analyz-



ing a variety of assessment practices to support reflective decision making in the elementary classroom. Theoretical foundations of current approaches and application of best practices in classroom management including management of time, space, transactions and activities effectively with an emphasis on approaches to prevent and/or manage disruptive behavior. A 30 hour field experience in area school classrooms is required as a part of this course.

**ELE 458 Theory into Practice.** 2(2-0) F,S.

Prerequisite: concurrent enrollment with ELE 495. Experiences to integrate knowledge of methodology in practical teaching situations. Individual experiences designed to supplement previous coursework will be provided. Professional development plans, placement activities and sources of professional assistance will be examined.

**ELE 495 Supervised Teaching (Elementary).** 6, F,S.

Prerequisite: completion of ELE 400 and ELE 425 and ELE 429 and ELE 434 and ELE 438 and ELE 440 and RDG 420 and RDG 421; and a passing score on the Praxis II exam, a grade of "C" or better in all professional education courses; approved for student teaching. Student observes, then teaches under the direction of the cooperating teacher and college supervisor. Students participate in extra-curricular activities and attend both individual and group conferences. Credited only on B.S. in Education. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**ELE 496 Supervised Teaching (Elementary).** 5-6, F,S.

Prerequisite: ELE 495 or SEC 493 or SPE 495, completed or concurrent; and a passing score on the Praxis II exam. Student observes, then teaches under the direction of the cooperating teacher and college supervisor. Student participates in school-related activities and attends both individual and group conferences. Credited only on B.S. in Education. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**ELE 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

*The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.*

**ELE 610 Elementary School Curriculum.** 3(3-0) F.

The purpose of this course is to analyze the philosophical and theoretical frameworks that guide elementary curriculum for the assumptions that each makes with regard to teaching and learning. Students will be introduced to the development of curriculum and curriculum materials for use in elementary educational settings. Students will examine the social, political and institutional contexts in which curriculum is developed and used, curriculum development methods and process, and various methods for the implementation, evaluation and distribution of curriculum materials.

**ELE 611 Contemporary Issues in Elementary Curriculum.** 3(3-0) F, S, Su.

Contemporary issues confronting the modern elementary school; current problems, innovations and proposed changes which affect the total elementary school program. Trends and issues that are developing at the national level.

**ELE 613 Advanced Theory and Practice in the Teaching of Communication Arts.** 3(3-0) F.

Materials, methods and procedures for effective classroom presentation of communication arts. Selection, organization and development of content materials; current issues and trends in the field.

**ELE 614 Advanced Theory and Practice in the Teaching of Social Studies.** 3(3-0) S.

Materials, methods and procedures for effective classroom presentation of social studies. Selection, organization and development of content materials; current issues and trends in the field.

**ELE 615 Advanced Theory and Practice in the Teaching of Mathematics.** 3(3-0) S.

Materials, methods and procedures for effective classroom presentation of elementary mathematics. Selection, organization and development of content materials; current trends and issues in the field.

**ELE 616 Advanced Theory and Practice in the Teaching of Science.** 3(3-0) F.

Materials, methods and procedures for effective classroom presentation of elementary science. Emphasis is placed on teaching science as inquiry and experimentation. Selection, organization and development of content materials; current trends and issues in science education.

**ELE 617 Advanced Theory and Practice in the Teaching of Economic Education.** 3(3-0) Su.

Materials, methods, and procedures for effective classroom presentation of economic education. Selection, organization, and development of curriculum materials, current issues and trends in the field of economics. Presents students with a framework for proper scope and sequencing of economics concepts to develop an awareness of appropriate benchmarks for economic education instruction.

**ELE 620 Advanced Theory and Practice in Student Assessment and Evaluation.** 3(3-0) D.

Materials, methods, and procedures for effective assessment and evaluation of students. Planning, selection, construction, use, and analysis of a variety of assessment practices including formal and informal approaches. Application of knowledge learned throughout course will help students make judicious and reflective decisions while teaching.

**ELE 622 Differentiated Instruction for Early Childhood, Elementary, and Middle School.** 3(3-0) D.

Materials, methods, and procedures for effective differentiation of instruction and evaluation of students. Planning, selection, construction, use and analysis of a variety of differentiate instructional practices across grade levels and disciplines, paying close attention to elementary and middle school learners. Application of knowledge learned throughout course will help students made judicious and reflective decisions while teaching.

**ELE 672 Research Seminar in Elementary Education.** 3(1-4) F,S.

Prerequisite: SFR 690 and ELE 611. Guided development of a research paper or a creative project.

## Instructional Media Technology Courses

**IMT 365 (SFT) Instructional Applications of Technology and Media.** 3(3-0) F,S.

Prerequisite: CIS 101 or CSC 101 or competency test, and one of the following: ELE 302, or SPE 310, or SEC 300 and 301, or SEC 302, or concurrent enrollment for teacher education majors. Principles and techniques for selection and utilization of computer and video systems as well as other basic forms of media and technology. The class combines research, instructional design, equipment operation and materials production in lecture and laboratory settings to prepare teachers to be reflective decision makers on proper methods of using technology in teaching.

**IMT 562 (SFT) Educational Applications of Computers for Teaching.** 3(2-2) D.

Using microcomputers in educational settings. Includes the investigation of software in desktop publishing, record management and multimedia applications. Special emphasis will be given to selection of appropriate programs for specific classroom utilization as well as computer interfaced peripheral devices.

**IMT 563 Technology Administration and Management.** 2(2-0) D. This course is designed to provide technology specialists, technology coordinators, library media specialists, school administrators and educators with a working knowledge of the administrative processes and concerns of operating a media/technology support facility. The primary focus will be toward leadership, strategic planning, and change management and writing technology plans. The content of this course is primarily structured for educational institutions but could be utilized for instructional and training systems in many types of industrial, religious, medical and corporate organizations that teach and train.

**IMT 565 (SFT) Selection and Utilization of Instructional Technology.** 3(3-0) D.

Principles and techniques of selecting and utilizing technology equipment and materials in various educational settings. The course involves basic operation of common classroom technology including video, audio, photographic, computer and multimedia.

**IMT 597 Topical Issues in Instructional Technology.** 1-5, D.

Prerequisite: permission of department head is required. A variable credit course with amount of credit based on the extent of the work required. Special topics related to the field of Instructional Technology which may broaden the scope of the program study. May be repeated up to a maximum of 5 hours.

*The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.*

**IMT 663 (SFT) Administration of Instructional Technology.** 3(3-0) D.

Emphasis is placed on management skills including budgeting; facility design; policies and procedures; selection and utilization; evaluation; assessment and other topics related to coordinating an instructional technology program at a building, district, institutional or organizational level.

**IMT 664 (SFT) Instructional Design.** 3(3-0) D.

Emphasis on the analysis and development of instruction for large group, small group, and individual student instruction. The utilization of systems approaches and packaged instructional forms will be stressed. The course will integrate systems approaches with learning theory involving instructional media technology.

**IMT 665 (SFT) Educational Media Production.** 3(2-2) F.

Prerequisite: IMT 565. Principles and techniques of designing and producing advanced forms of media software materials in video, audio, and photography formats with emphasis on multi-media which includes computer generated graphics interfaced with video and audio editing as well as more basic production projects such as slide-tape programs.

**IMT 667 (SFT) Instructional Technology Practicum.** 2(0-4) D.

This is a field-experience based course which requires the student to spend a minimum of 60 hours in a working environment where educational media technology services and programs are being used or developed. The practicum may include: school media services; university programs; development centers in industry, government or medical programs; educational TV studios; computer facilities or other special programs.

**IMT 677 Instructional Technology Special Research Project.** 3, D.

Prerequisite: SFR 690. An extensive multimedia production project which results in a functional product with extensive written documentation to support its use as a research or instructional tool which could provide results for extended research and publication.

**IMT 697 Problems in Instructional Technology.** 1-3, D.

Research in or in-depth examination of issues and problems in the field of Instructional Technology. May be repeated up to a maximum of 5 hours when topic varies.

**IMT 698 Research Seminar in Instructional Technology.** 3(3-0) D. Prerequisite: SFR 690. An extensive research paper focused on the field of Instructional Design and Technology.

**IMT 699 Instructional Technology Thesis.** 3-6, D.

Prerequisite: SFR 690. Independent research and study connected with preparation of a thesis in the field of Instructional Technology. The paper will consist of original or creative research accountable to committee review and defense. May be repeated for a maximum of 6 hours credit.

## Middle School Education Courses

*Admission to the Teacher Education Program is required to enroll in all of the following courses.*

**MID 421 (521) Philosophy and Organization of Middle School Education.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program. An overview of the philosophy, organization and curriculum of the middle school with emphasis upon teaching methods appropriate for use with students in late childhood and early adolescence. Strategies for advisory, study skills, and transition programs.

**MID 425 (525) Middle School Curriculum.** 2(2-0) F,S,Su.

Prerequisite: MID 421 and admitted to Teacher Education Program. May be taken concurrently with MID 421. Foundations in the development and articulation of middle school curriculum, with emphasis on the development of interdisciplinary thematic units and lessons relevant to the young adolescent learner. Integrated approaches to teaching and learning designed, implemented, and evaluated as part of a teaching team. Alternative assessments, including performance-based portfolios.

**MID 439 (539) Middle School Instructional Strategies.** 3(2-2) F,S.

Prerequisite: MID 421 and MID 425 and admitted to Teacher Education Program. Students will be assigned to site-based middle school teaching teams at Greenwood Laboratory School and/or area middle schools and will attend weekly seminars. Instructional methods and techniques appropriate for middle school learners will be studied including: teaching subject area classes in the core curriculum and strategies for teaching exploratory and advisory classes. Includes exploration of current issues, research, and innovative approaches to teaching at-risk youth and those with diverse backgrounds.

**MID 493 Supervised Teaching (Middle School).** 6(0-6) F,S.

Prerequisite: completion of MID 425 and MID 439 and RDG 318 and RDG 474 and all method courses in chosen content areas; a grade of "C" or better in all professional education courses; and a passing score on the Praxis II exam; and approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and college supervisor. Student participates in extra-curricular co-curricular, and exploratory activities and attends both individual and group conferences. Credited only on B.S. in Education. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**MID 494 Supervised Teaching (Middle School).** 6(0-6) F,S.

Prerequisite: MID 493 or concurrent enrollment; a passing score on the Praxis II exam. Student observes, then teaches under the direction of the cooperating teacher and college supervisor. Student participates in extra-curricular co-curricular, and exploratory activities and attends both individual and group conferences. Credited only on B.S. in Education. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**MID 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements

within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.**

**MID 625 Advanced Theory and Practice in the Teaching of Early Adolescents.** 3(3-0) D.

Materials, methods, and procedures for designing developmentally appropriate learning experiences for early adolescents; current trends and issues in the field.

**MID 710 (EAS) The Middle School—The Junior High School.** 3(3-0) D.

An examination of educational programs most appropriate for students in late childhood and early adolescence with emphasis upon the philosophy, curriculum, instruction, and organization of middle schools and junior high schools.

## Reading Courses

**Admission to the Teacher Education Program is required to enroll in all of the following courses.**

**RDG 300 Service Learning in Reading.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a RDG course designated as a service learning offering and admitted to Teacher Education Program. This service component for an existing course incorporates community service with classroom instruction in Reading to provide an integrated learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. This course may not be substituted for RDG 421 or any other required practicum. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**RDG 318 Foundations of Reading Instruction.** 3(3-0) F,S.

Prerequisite: admitted to Teacher Education Program. The basic nature of reading, including developmental, functional, and recreational reading, with application to content areas. Basic approaches to reading instruction from readiness through middle school/junior high school, for use in the contemporary classrooms, which is assumed to contain children of diverse cultures and abilities.

**RDG 319 Practicum—Foundations of Reading Instruction.** 1(0-2) D.

Prerequisite: admitted to Teacher Education Program or permission of department head. Practical application of developmental, functional, and recreational reading instructional practices from readiness through middle school/junior high school by the assignment of students to practicum centers where they will be required to observe, prepare, teach, and analyze reading lessons. Students enrolled in this course will be required to have a health examination, including a TB test for practicum placement.

**RDG 420 Assessing and Personalizing Reading.** 3(3-0) F,S.

Prerequisite: RDG 318 for Elementary and Early Childhood Education majors; SPE 320 and SPE 321 for Special Education majors and admitted to Teacher Education Program. A practical approach to personalizing elementary reading instruction, which includes assessing the needs and reading progress of children, selecting appropriate materials and pro-

cedures for the contemporary classroom, which is assumed to contain children of diverse cultures and learning abilities.

**RDG 421 Practicum—Assessing and Personalizing Reading.** 2(1-2) F,S.

Prerequisite: RDG 318 and concurrent enrollment in RDG 420 and admitted to Teacher Education Program. Practicum application of techniques in personalizing elementary reading instruction, by the assignment of students to practicum centers where they will be required to assess the reading status and progress of children and select appropriate materials and techniques for developmental and corrective reading. Students enrolled in this course will be required to have a TB test for practicum placement. Additional field experience activities required outside of class time.

**RDG 422 Techniques of Teaching Reading in the Content Fields.** 2(2-0) D.

Prerequisite: RDG 318 or permission of department head and admitted to Teacher Education Program. Students will learn to assess reading levels and learning styles of children and select appropriate materials in various content fields. They will learn techniques of teaching reading in various content areas, with emphasis on functional and study skills in these materials. Application will be made to the contemporary classroom, which is assumed to contain children of diverse cultures and learning abilities.

**RDG 474 Reading and Writing in the Content Fields.** 2(2-0) F,S.

Prerequisite: admitted to Teacher Education Program. Methods and strategies for using reading and writing as tools for learning in regular middle and secondary school classrooms in which there exists a wide range of reading achievement. Includes awareness of reading approaches and problems; study skills, reading evaluation and measurement; vocabulary and comprehension development; selection of materials appropriate for each student.

**RDG 480 Problems in Reading Education.** 1-3 D.

Prerequisite: permission of department head. The student, in consultation with advisor or teacher, selects a topic in reading for in-depth, independent study. Number of hours of involvement determined by semester hours of credit. May be repeated to a total of 5 hours.

**RDG 556 Topical Issues in Reading.** 1-5 D.

Prerequisite: permission may be required—see schedule. To develop understanding and skills in relevant areas of reading education. Each offering concerns a single topic. Number of class hours determined by semester hours of credit. May be repeated to a total of 5 hours when topics change. Variable Content Course.

**RDG 560 Diversity in Elementary and Middle School Reading and Communication Arts Classes.** 2(2-0) F.

Prerequisite: admitted to Teacher Education Program. Designed especially for preservice and practicing elementary and middle school teachers working on undergraduate degrees in elementary education and/or graduate degrees in reading or elementary education. Students will expand their knowledge of diversity and learn to implement diversity issues into their reading and/or communication arts lessons. Students will be introduced to various aspects of diversity through course readings, multicultural literature, videos, guest speakers, and multicultural community field trips.

**RDG 574 Analysis and Correction of Reading Difficulties.** 3(3-0) F,S.

Prerequisite: RDG 318 or both RDG 420 and RDG 421, or equivalent; and admitted to Teacher Education Program. Techniques of analysis and correction of reading difficulties for elementary, secondary, special education and reading teachers. Trends in dealing with diagnostic procedures, instructional techniques, special materials, and evaluative devices. Students concentrate study within their level of training.

**RDG 578 Classroom Management for Effective Reading Instruction.** 3(3-0) D.

Prerequisite: instructor recommendation and demonstrated proficiency in reading education; and admitted to Teacher Education Program. Students will acquire knowledge of, and demonstrate competence with, (1) techniques for matching students with materials, (2) providing activities for individual, small group, and whole group instruction, and (3) organizing independent and small group activities as a technique for aiding individualization of instruction.

**RDG 599 Literacy Projects.** 1-3, D.

This course is designed to provide students an opportunity to informally assess and tutor adults or children exhibiting literacy difficulties. Students are expected to have an increased awareness and understanding pertaining to literacy and to recognize the importance of improving the educational process of adults and children. This course may not be substituted for any required reading course. Number of class hours determined by semester hours of credit. May be repeated to a total of 3 hours.

*The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.*

**RDG 610 Problems in Reading Education.** 1-3 D.

Prerequisite: permission of department head. In consultation with the advisor, major issues in the field of reading education are selected for investigation through independent study. Number of hours of involvement determined by semester hours of credit. May be repeated to a total of 3 hours.

**RDG 620 Use of Multi-Media Resources in Reading.** 3(3-0) D.

Criteria, methods and tools for selection and effective utilization of books, magazines, recordings, films, computer software, television programs, and other materials enhancing and encouraging reading competency; production of materials utilizing various media. Students concentrate study within their level of training (elementary or secondary).

**RDG 625 Issues and Trends in Literacy Education.** 3(3-0) D.

Provides intensive study of significant issues and trends in literacy education. Emphasis on locating and analyzing current issues and trends and encouraging teachers and administrators to apply the information to research-based best practices in the classroom.

**RDG 670 Remedial Reading for the Clinician.** 3(3-0) F,S.

Prerequisite: RDG 574. Designed especially for the special reading teacher or clinician who needs an advanced course for the remedial reader. Psycho-educational testing techniques, multisensory teaching techniques, report writing, resource personnel, and clinic operations will form the basis for this course. It is not recommended for those seeking regular classroom techniques.

**RDG 671 Diagnosis of Reading Problems.** 3(1-4) Su.

Prerequisite: RDG 670 and concurrent enrollment in RDG 672. Supervised individual practice diagnosing reading problems; teacher works with either elementary, secondary or adult pupils. Includes 4 hours of practicum.

**RDG 672 Remediation of Reading Problems.** 3(1-4) Su.

Prerequisite: RDG 670 and concurrent enrollment in RDG 671. Supervised individual practice with remedial procedures for reading problems; teacher works with either elementary, secondary or adult pupils. Includes 4 hours of practicum.

**RDG 673 Psychology of Reading.** 3(3-0) D.

Practical contemporary learning theories, physiological aspects and psycholinguistic principles which are subservient to learning to read. How one learns to read based on research in the area of education, psychology, neurology, and physiology.

**RDG 674 Assessment and Instruction of Less Skilled Readers.** 3(2-2) or 6(2-8) F,S.

Prerequisite: RDG 318 or both RDG 420 and RDG 421, or equivalent. Supervised small group practice in a clinical setting assessing and instructing students who are experiencing difficulty learning to read. Planned with and directed by a graduate faculty member. Less intensive and more generalized clinical experience for those not intending to pursue remedial reading certification. May not be substituted for any course required for special reading certification (RDG 574, 670, 671, or 672). Reading majors must enroll for 6 credit hours, other majors may enroll for 3 credit hours.

**RDG 675 The Relationship of Language to Reading and Intellectual Development.** 3(3-0) F,S,Su.

Utilizing elements of language and intellectual development which provide the basis for the development of appropriate reading skills. Helping teachers gain skill in using teaching strategies which help children develop language and intellectual competencies. To be taken during the first semester of the graduate reading program.

**RDG 677 Reading in the Content Fields.** 3(3-0) S.

Teaching subject matter in content areas in ways for utilizing and further developing fundamental reading; effective reading skills, vocabulary development in specific areas, study skills, utilization of cognitive processes.

**RDG 678 (676) Curriculum Design in Reading.** 3(3-0) F,S.

Prerequisite: RDG 675 and RDG 677. Students will research and read literature to prepare for establishing a total school reading curriculum. This capstone course is usually taken during the semester students take comprehensive exams.

**RDG 679 Research Seminar in Reading.** 3(3-0) F,S.

Prerequisite: SFR 690 and RDG 675 or RDG 677. An in-depth study of a topic in reading, leading to the guided development and completion of an extensive research paper.

**RDG 699 Thesis.** 1-6 D.

Prerequisite: SFR 690 and RDG 675 and RDG 677. Independent research and study connected with preparation of thesis. May be repeated to a maximum of 6 hours credit.

## Secondary Education Courses

**SEC 300 Clinical and Field Experiences in Secondary Education.** 2(0-4) D.

Prerequisite: SFR 250 and an initial C-Base exam must be taken and concurrent enrollment in SEC 301. Students enrolled attend a weekly clinical and/or discussion session on campus and participate in field experiences at the Greenwood Laboratory School and/or area secondary schools. Course may not be taken Pass/Not Pass.

**SEC 301 Introduction to Teaching in the Secondary School.** 2(2-0) D.

Prerequisite: SFR 250 and an initial C-Base exam must be taken and concurrent enrollment in SEC 300. Principles and objectives of secondary education; methods of meeting the diverse educational needs of today's secondary students; techniques of teaching; unit construction and daily planning. Course may not be taken Pass/Not Pass. Required first portfolio checkpoint will occur in this course.

**SEC 302 General Methods of Instruction in the Middle and Secondary Schools.** 4(3-2) F,S.

Prerequisite: 45 hours; 2.50 combined GPA; and "C" or better in EDC 150 or concurrent enrollment or equivalent competencies. Principles and objectives of secondary education; methods of meeting the diverse educational needs of today's middle and secondary students; techniques of teaching; unit construction and daily planning. Students participate in a 30 hour field experience at the Greenwood Laboratory School and/or area middle or secondary schools. A grade of C or better is required in this course in order to student teach. This course may not be taken Pass/Not Pass. Required first portfolio checkpoint will occur in this course. This course is a combination of previously offered SEC 300/301 and students may not receive credit for both SEC 300/301 and SEC 302. C-Base must be passed to proceed beyond this point in the professional education program.

*Admission to the Teacher Education Program is required to enroll in all of the following courses.*

**SEC 493 Supervised Teaching (Secondary).** 5-6, F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Concurrent enrollment with SEC 495 required.

**SEC 494 Supervised Teaching (Secondary).** 5-6, F,S.

Prerequisite: SEC 493 or ELE 495 or SPE 495. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the

work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**SEC 495 Theory into Practice: Applications Workshop.** 1-3, F,S. Prerequisite: completion of all method courses in chosen content area; a grade of C or better in all professional education courses; approval for student teaching; and concurrent enrollment in SEC 493. Students enroll in workshops, offered during the student teaching semester, that help student teachers with particularly important and difficult tasks involving such things as how to work with diverse student populations, how to apply effective reading strategies, and how to manage students in the classroom. Additional aspects of teaching unique to particular subject matter areas will also be explored.

**SEC 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**SEC 522 Philosophy of Vocational Education.** (Identical with AGV 522 and BSE 522) 1-3, D.

Philosophical foundations of vocational education; philosophies of vocational education in contemporary school. May be repeated to a total of 3 hours.

**SEC 526 Coordination of Cooperative Education.** (Identical with AGV 526 and BSE 526) 1-2, D.

Prerequisite: teacher certification or permission of department head. Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Restricted to those who can qualify as coordinators. May be repeated to a total of 2 hours.

**SEC 527 Teaching Adults in Vocational Education.** (Identical with AGV 527 and AGE 508) 3(3-0) D.

Prerequisite: teacher certification or permission of department head. Rise of the adult education movement; learning abilities, educational interests and vocational needs of adults; problems and procedures in organizing and operating adult education programs; relationship of adult education to public school education.

**SEC 528 Measurement and Evaluation of Vocational Education Programs.** (Identical with AGV 528 and BSE 528) 1-3 D.

Prerequisite: teacher certification or permission of department head. Assessing specific program needs as determined from occupational surveys and other demographic data; follow-up techniques to evaluate the overall effectiveness of the program on manpower needs in a given labor market area. May be repeated to a total of 3 hours.

*The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.*

**SEC 601 Secondary School Curriculum.** 3(3-0) D.

Foundation course in the development and organization of the secondary school curriculum.

**SEC 603 Seminar in Current Trends in Teaching English.** 2(2-0) D.

Prerequisite: ENG 405. For experienced teachers of English in grades 9-12; research and recent developments in teaching literature and composition.

**SEC 604 Seminar in Current Trends in Teaching Social Studies.** 2(2-0) D.

Prerequisite: HST 418. For experienced teachers of social studies in grades 9-12; research and recent developments in teaching various areas of social studies.

**SEC 605 Curriculum Construction in Business Education.** (Identical to BSE 605) 1-3 D.

Objectives and interrelationships of business education courses and programs. Development of curricular materials and evaluative devices. May be repeated to a total of 3 hours.

**SEC 606 Seminar in Current Trends in Teaching Business Education.** 2(2-0) D.

Prerequisite: BSE 403. For experienced teachers of business education in grades 9-12; research and recent developments in teaching business education.

**SEC 607 Seminar in Current Trends in Teaching Mathematics.** 2(2-0) F.

Prerequisite: MTH 409. For experienced teachers of mathematics in grades 9-12; research in recent trends and developments in teaching mathematics.

**SEC 608 Seminar in Current Trends in the Teaching of Biology.** 2(2-0) D.

Prerequisite: SCI 414. Methods of teaching biology; emphasizing modern techniques and developments in both the biological science curriculum and instructional procedures relating to that curriculum.

**SEC 683 Internship in Teaching I.** 3(1-4) D.

Prerequisite: admitted to Master of Arts in Teaching degree program. A site-based clinical experience. Students will observe the operations of a school, serve as teacher aides and administrative aides in the school; and work closely with school and community service organizations. Students will also attend an ongoing seminar.

**SEC 684 Internship in Teaching II.** 10(2-16) D.

Prerequisite: SEC 683 and admitted to Master of Arts in Teaching degree program. A semester-long supervised teaching experience. Students teach full time, under the supervision of a cooperating teacher and a University supervisor. Students also attend an ongoing seminar and design a research project required for graduation.

**SEC 685 Internship in Teaching III.** 1 D.

Prerequisite: SEC 683 and SEC 684 and admitted to Master of Arts in Teaching degree program. Students will complete an action research project and a professional preparation portfolio. Students will also attend an ongoing seminar, and are required to sit for an oral defense of both the research project and the portfolio.

## Secondary Education, Foundations and Educational Research Courses

**SFR 250 (SFT) Foundations of American Education.** 3(3-0) D.

Prerequisite: completion of 30 semester hours. This course introduces education majors to the Departments of Early Childhood, Elementary and Middle School Education; Reading, Special Education, and Instructional Technology; Secondary Education, Foundations and Educational Research. Knowledge Base with its emphasis on teachers as reflective decision-makers. It examines both the nature and history of the teaching profession, K-12 school orientation, and educational theories. It also explores sociocultural, political, and legal issues in American education.

**SFR 305 (SFT) Field Experiences in Education.** 1-2 (0-2, 0-4) F,S.

Student attends scheduled discussion sessions on campus and participates in field experiences at Greenwood Laboratory School and/or area schools. Designed for transfer students who have partially completed the field experiences requirement and students working on a certification which requires a second field experience.

*Admission to the Teacher Education Program is required to enroll in all of the following courses.*

**SFR 351 (SFT) Philosophical Problems of Education.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program, or permission of department head. Introduction to educational problems involving language, logic, ethics, theory of knowledge, and theory of action, as they apply to school problems of pedagogy, curriculum, and policy. Contemporary and historical treatments of the problems.

**SFR 353 (SFT) History of Educational Thought.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program, or permission of department head. The history of major educational ideas and their relationships to contemporary educational theories and practices.

**SFR 354 (SFT) Social and Philosophical Foundations of American Education.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program or; or permission of department head. The roles and functions of the school in the social and philosophical context of American culture. Attention to cultural diversity and its effects upon the school and the learner.

**SFR 396 (SFT) Student Assessment and Evaluation.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program. Planning, constructing, using, and analyzing a variety of assessment practices to enable preservice teachers to make reflective decisions in the classroom.

**SFR 399 (SFT) Problems in Education.** 1-3, D.

Prerequisite: permission of department head. Independent research conducted on topics relevant to the field of education. The student and instructor mutually agree upon the direction and extent of the project. Credited only on the B.S. in Education degrees. May be repeated to a maximum of 3 hours credit.

**SFR 442 (SFT) Techniques of Classroom Management.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program. Emphasis on prevention of behavior problems. The study of theoretical approaches to handling disruptive behavior in the classroom. Application of theory to simulated classroom situations. Includes assistance in teaching students with handicaps and/or from different cultural backgrounds.

**SFR 444 (SFT) Approaches to Individualizing Education.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program. Analyzing the academic interest, levels, and learning styles of the student. Methods of developing individual programs, self-instructional packages, and learning aids. Introduction to prepared materials and other technology to enable the teacher to individualize instruction.

**SFR 482 (SFT) Teacher Relationships with the School and Society.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program. Professional responsibilities and roles of the teacher in relationships with students, staff, and community; job procurement and interview skills, teaching as a career and profession.

**SFR 521 (SFT) Techniques for Teaching Adults.** 3(3-0) D.

Prerequisite: admitted to Teacher Education Program or permission of department head. A survey of the principles, objectives and trends in instructional techniques for adult education.

**SFR 547 (SFT) Guidance and Interpersonal Relationships in the Classroom.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program, or valid teaching certificate; or permission of department head. Appropriate classroom communication and interpersonal skills. Emphasis on the relationship between self concept development and achievement in a diverse student population.

**SFR 576 (SFT) Topical Issues in Education.** 1-5, D.

Prerequisite: permission may be required, see schedule. To develop further understanding and skills in the improvement of teaching procedures, curriculum, supervision, or administration. Each course is concerned with a single topic. Number of class hours determined by semester hours of credit. A maximum of 3 hours may be used on a degree program. Variable Content Course.

**SFR 581 (SFT) Law and the Classroom Teacher.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program, or valid teaching certificate; or permission of department head. Rights and responsibilities of classroom teachers as determined by the legal structure created by state and federal constitutions, legislative actions, and judicial decisions. Implications of legal foundations for teachers relative to ethics, relationships with students, colleagues, minority groups, professional organizations, and others.

**SFR 583 (SFT) Contemporary Issues in Education.** 2(2-0) F,S.

Prerequisite: admitted to Teacher Education Program, or valid teaching certificate; or permission of department head. In-depth analysis of selected issues currently generating great interest and controversy in American education. Attention to the effects of the issues on the teaching profession, curriculum, instruction, and school personnel.

**SFR 595 (SFT) Applications of Educational Measurement.** 2(2-0) D.

Prerequisite: admitted to Teacher Education Program, or valid teaching certificate; or permission of department head. Using the results of testing in schools. The role, advantages, and limitations of evaluative instruments and techniques in educational decision making.

*The following courses are open only to graduate students. Admission to the graduate program and/or permission from a graduate faculty advisor is required to enroll in the following courses.*

**SFR 609 (SFT) Individualizing Instruction.** 3(3-0) D.

Training in various procedures for individualizing instruction at all grade levels.

**SFR 611 (SFT) Principles and Organization of Student Activities.** 2(2-0) D.

Acquaints teachers and administrators with problems and procedures involved in the organizations and supervision of student activities.

**SFR 623 (SFT) Organization and Administration of Adult Education.** 3(3-0) D.

Theory and practice relating to the organization, administration, and supervision of adult education. Emphasis will be placed upon adult education programs in the public school and the junior-community college.

**SFR 624 (SFT) Organization and Administration of Vocational Education.** (Identical with AGV 624) 1-3, D. Problems, procedures and local, state and federal relationships in organization and administration of vocational education in the contemporary school. May be repeated to a maximum of 3 credit hours.

**SFR 630 (SFT) Curriculum Construction in the School.** 2(2-0) D.

Prerequisite: ELE 611 or SEC 601. Traditional, humanistic, and behavioristic approaches to advanced curriculum development in the school.

**SFR 650 (SFT) Philosophies of Education.** 3(3-0) D.

Philosophical problems of education; philosophical systems in America; their effect upon educational practice.

**SFR 653 (SFT) Comparative Educational Systems.** 2(2-0) D.

Comparative analysis of major ideas and institutions of selected international systems of education. Comparisons between international systems of education and systems dominant in America.

**SFR 690 (SFT) Introduction to Educational Research.**

3(3-0) F,S,Su.

Research methods used in education; problems of interpretation and application; basic form and structure in research.

**SFR 691 (SFT) Educational Workshop.** 1-9 D.

Workshop to upgrade understandings and skills, concerned with the improvement of secondary teaching procedures, curriculum, supervision, administration or guidance. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. May be repeated to a maximum of 9 hours. Thirty clock hours equal one semester hour.

**SFR 692 (SFT) Supervision of Student Teachers.** 2(2-0) D.

Prerequisite: valid elementary or secondary teaching certificate. For public school teachers cooperating in college student-teaching programs; organizing and directing work of the student teacher.

**SFR 693 (SFT) Qualitative Research Methods.** 3(3-0) D.

Prerequisite: SFR 690 or permission of instructor. This course is focused on qualitative methods in the social sciences and specifically in educational research, including educational action research. Depending on prior research work, students will plan, implement, or further a qualitative or action research study. Students will learn first hand about collecting and analyzing qualitative data, developing theories, and writing up the results. Students will also explore the role of educational action research in professional development, in improving classroom practices, and in developing school policy.

**SFR 694 (SFT) Research Practicum.** 1-3, D.

Prerequisite: SFR 690. Conducting research projects with schools and other educational agencies. Students will be engaged in articulating research problems, reviewing literature, collecting and analyzing data, and presenting results.

**SFR 696 (SFT) Problems in Education.** 1-3 D.

Prerequisite: permission of department head. Specific problems in education related to needs and interests of the student. May be repeated to a total of 3 hours.

**SFR 699 (SFT) Thesis.** 1-6 D.

Prerequisite: SFR 690. May be repeated to a maximum of 6 hours credit.

**SFR 758 (SFT) Current Issues Affecting Education.** 1-3 D.

This multi-disciplinary mini-course is composed of selected topics of current interest to all school personnel. Opportunities are provided for



object examination of highly volatile controversies surrounding education. May be repeated for a total of 6 hours credit.

**SFR 790 (SFT) Field Research and Evaluation.** 3(3-0).

Prerequisite: SFR 690 or permission of department head. Specifically designed to give each student the prerequisite skills and competencies necessary for completion of field study research project(s) as well as preparation for conducting on-the-job institutional research.

## Special Education Courses

**SPE 300 Service Learning in Special Education.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a Special Education course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Special Education to provide an integrated learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**SPE 306 Integrating the Arts for Students with Disabilities.** 2(2-0) F,S.

Prerequisite: SPE 310, SPE 320/321, SPE 345/346; concurrent enrollment with SPE 582 or SPE 583 required. This course will focus on integration of five primary art forms (i.e., literature, music, drama, movement, and art) into the content area curriculum. Emphasis will be upon the five primary art forms, how they relate to and enhance one another, and how they facilitate children's learning within the core subject areas. Activities, materials, and lessons in these areas will be developed with particular attention to developmentally appropriate methodology and appropriate modifications/ accommodations useful in making the arts accessible to students with disabilities. A series of five workshops will explore the theory, methodology, and activities for integrating the arts into the daily routine of the classroom. Field experiences are a part of the course.

**SPE 310 (330) Introduction to Special Education.** 3(3-0) F,S.

Prerequisite: EDC 150, and an initial C-Base taken. This course will focus on the special education process as mandated by state and federal guidelines. Legislation, litigation, and service options pertaining to diverse populations will be stressed including those with disabilities, culturally diverse, and gifted. Emphasis will be placed on current issues in the field of special education. Students will participate in observations in appropriate school and agency settings. Required first portfolio checkpoint will occur in this course.

**Admission to the Teacher Education Program is required to enroll in all of the following courses.**

**SPE 320 Introduction to Teaching Cross Categorical Special Education.** 3(3-0) F,S.

Prerequisite: SPE 310 and admitted to Teacher Education Program. This course will focus on students served in cross categorical special education settings as well as low incidence populations. Emphasis will be placed on theoretical perspectives, etiology, characteristics, and historical aspects pertaining to individuals with mental retardation, developmental disabilities, behavior disorders/emotional disturbance, and learning disabilities.

**SPE 321 Introduction to Teaching Cross-Categorical Special Education Lab.** 2(0-4) F,S.

Prerequisite: concurrent enrollment in SPE 320 and admitted to Teacher Education Program. This lab will provide students with opportunities to analyze case studies and programming for children and youth with learning disabilities, mental retardation/developmental disabilities, behavioral disorders, and physical and other health impairments.

**SPE 340 (530) Educational Alternative for Exceptional Students.** 2(2-0) F,S.

Prerequisite: SEC 300 and SEC 301, or SEC 302, or ELE 302 and admitted to Teacher Education Program. The course will provide an overview of characteristics and identification criteria for individuals with disabilities and gifted. Legislation and process pertaining to special education will be addressed along with a focus on teaching individuals with diversity in the

elementary, middle, and secondary educational setting. May not be substituted for SPE 330 core requirement in the special education major or minor.

**SPE 345 (535) Educational Evaluation of Exceptional Students.** 3(3-0) F,S.

Prerequisite: SPE 320 and SPE 321 and concurrent enrollment in SPE 346, or permission and admitted to Teacher Education Program. This course will focus on mastery of psychometric principles as well as diagnostic and prescriptive teaching from performance based data. Federal and state process guidelines pertaining to multidisciplinary evaluation will be addressed. Emphasis will be placed on assessment of diverse individuals including those with disabilities, cultural, ethnic, and language differences. Course content will address developmental as well as vocational assessment.

**SPE 346 Educational Evaluation of Exceptional Students Lab.** 2(0-4) F,S.

Prerequisite: concurrent enrollment in SPE 345 or permission and admitted to Teacher Education Program. Students will apply course content presented in SPE 345 through field based and lab activities including administration and scoring of standardized assessment instruments, development of alternative assessments, data analysis, and report writing. Lab experiences will be designed to meet specific competencies in either Early Childhood Special Education or Special Education K-12.

**SPE 450 Methods of Teaching Mathematics to Exceptional Individuals.** 3(3-0) F,S.

Prerequisite: SPE 345 and SPE 346 and MTH 320 and admitted to Teacher Education Program. The focus of the course will include accommodating individual differences and diversifying instruction in the area of mathematics. Students will develop performance based assessment procedures, conduct error analyses, and apply mathematics skills in program planning for the diverse learner.

**SPE 460 Curriculum Materials for Exceptional Students.** 2(1-2) S.

Prerequisite: SPE 310 and admitted to Teacher Education Program. This course examines curriculum materials for use with exceptional students in various remedial areas. Students will develop skills to analyze, select, utilize, and evaluate instructional guides and materials.

**SPE 480 Problems in Special Education.** 1-5 D.

Prerequisite: permission may be required—see schedule. The student in consultation with the advisor or teacher selects a topic in special education for in-depth study and/or special investigation. Number of class hours determined by semester hours of credit. May be repeated to a maximum of 5 hours. Variable Content Course.

**SPE 485 Curriculum and Methods in Early Childhood Special Education.** 4(3-2) D.

Prerequisite: ECE 401 and ECE 402 and admitted to Teacher Education Program. This course will focus on major aspects in early childhood special education including legislation, litigation, and current issues in the field. Each area of development of young children with disabilities will be a part of the course with particular emphasis on adaptation of materials and curricula to meet the needs of these children. There will also be a focus on families and issues surrounding assessment and eligibility for special education programs. Reflection on current practices and services for young children with disabilities will be included. Thirty clock hours of field experience will be required.

**SPE 488 (588) Behavioral Analysis and Intervention.** 3(3-0) F,S.

Prerequisite: SPE 345 and SPE 346 and admitted to Teacher Education Program. This course will focus on an analysis of behavior through a variety of behavioral assessment and recording techniques and the development of appropriate educational plans. Emphasis will be placed on proactive methods of behavior change and the development of positive instructional environments.

**SPE 491 (494) Practicum – Teaching Individuals with Behavior Disorders/Emotional Disturbance.** 2(0-4) S.

Prerequisite: concurrent enrollment in SPE 581 and admitted to Teacher Education Program. Students will apply skills from introductory and specialized courses in settings with students with behavior disorders/emotional disturbance. Students will be involved in individual and small group instruction, review diagnostic data, develop and implement educational programs, as well as meet with the university supervisor and other practicum students to reflect on experiences.

**SPE 492 (595) Practicum – Teaching Individuals with Learning Disabilities.** 2(0-4) F.

Prerequisite: concurrent enrollment in SPE 582 and admitted to Teacher Education Program. Students will apply skills from introductory and

specialized courses in settings with students with learning disabilities. Students will be involved in individual small group instruction, develop and implement instructional lessons, and meet with the university supervisor and other practicum students to reflect on experiences.

**SPE 493 (596) Practicum – Teaching Individuals with Mental Retardation/Developmental Disabilities.** 2(0-4) S,Su.

Prerequisite: concurrent enrollment in SPE 583 and admitted to Teacher Education Program. Students will apply skills from introductory and specialized courses in settings with students with mental retardation and developmental disabilities. Students will be involved in individual and small group instruction, develop and implement educational programs, as well as meet with the university supervisor and other practicum students to reflect on experiences.

**SPE 495 (481) Supervised Teaching – Special Education.** 6, F,S.

Prerequisite: completion of SPE 510 and SPE 581 and SPE 582 and SPE 583; a grade of “C” or better in all professional education courses; approval for teaching. Student observes, teaches, and participates in professional activities under the direction of the cooperating teacher and university supervisor. Student will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Credited only on BSED degree.

**SPE 496 (481) Supervised Teaching – Special Education.** 6, F,S.

Prerequisite: ELE 495 or SEC 493 or SPE 495. Student observes, teaches, and participates in professional activities under the direction of the cooperating teacher and university supervisor. Student will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Credited only on BSED degree.

**SPE 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of “C” or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student’s experience as a Teacher’s Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master’s-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**The following courses (SPE 500-509) do NOT require Admission to the Teacher Education Program.**

**SPE 500 Introduction to Autism.** 1(1-0) D.

This course is designed to give educators, parents, service provision agency personnel, and other interested persons an overview of autism as an educational disorder. The fifteen hours of course contact constitute part one of the *Missouri Autism Institute*, and provide basic information regarding the educational diagnostic condition of autism.

**SPE 501 Working with Autistic Students in the Schools.** 1-2 D.

Prerequisite: SPE 500 or permission of the department head. This course constitutes the second and last segment of the Missouri Autism Institute for educators who are, or will be, serving school-aged students with autism. Designed as an extension of the SPE 500, this course explores the education of school-age students with autism in greater depth. Variable 1-2 hours: Decision in consultation with advisor and/or department head. May be repeated for maximum of 2 hours with permission of department head.

**SPE 502 Early Intervention for Young Children with Autism.** 1(1-0) D.

Prerequisite: SPE 500 or permission of the department head. This course constitutes the second and last segment of the *Missouri Autism Institute* for educators who are, or will be, working with young children birth to age six who experience symptoms of autism.

**SPE 503 Assessment of Students with Autism for School Placement and Programming.** 1(1-0) D.

Prerequisite: SPE 500 or permission of the department head. This two-day course is intended for school multidisciplinary teams responsible for

evaluation of children with academic, cognitive, communication, and social/behavior disorders suspected to be related to autism. Designed to expand upon knowledge gained in SPE 500, content will cover the seven evaluation areas required under state and federal law: vision, hearing, health/motor (physical status), social/emotional/behavioral, verbal and nonverbal communication, cognitive and adaptive behavior, and academic/vocational. Diagnosis, functional assessment for programming, as well as report writing will be addressed.

**SPE 504 In-District Autism Consultant Training.** 1(1-0) D.

Prerequisite: SPE 500, current Missouri teaching certification, or the permission of the department head. Students will study advanced educational techniques of autism in general and educational methodologies specifically used with children with autism. Instruction will be provided in consultation and collaboration techniques. Students will demonstrate competence in educational report writing and in-service instruction. Personal professional development plans will be developed by each student, as well as a rating of personal competence. Students will be provided with resources for further study.

**SPE 505 Braille Reading and Writing.** 3(3-0) F.

Prerequisite: SPE 345 and SPE 346, or SPE 682, or departmental permission. This course has been designed to assist teachers of children and youth with visual impairments develop basic competencies in reading and writing literary Braille, preparing correctly formatted Braille material, and an awareness and basic understanding of the Nemeth code for students grades K-12. In addition, students will develop an understanding for the rules of English Braille American Edition. Successful completion of this course should be regarded as only one step in a series of courses leading to certification in teaching students with visual impairments. An approved certification process must be completed in order to acquire basic and necessary competencies for work with children and youth with visual impairments. Teachers will employ the use of the Perkins Braille Writer and slate and stylus to produce high quality Braille material. Finally, the course has been designed to help teachers develop an appreciation for the Braille system and the application of this system to all aspects of life for individuals with visual impairments.

**SPE 506 Orientation and Mobility.** 3(3-0) Su.

Prerequisite: SPE 345 and SPE 346, or SPE 682, or departmental permission. The course will apply practical application of orientation and mobility techniques used by the blind or visually impaired. The student will use blindfolds and low vision simulators to perceive, integrate and react to different environmental stimuli. Development of cane techniques and use of low vision stimuli will be instructed and applied by each student in the course. Examination and application of the fundamental principles and theory of sensory information acquisition by the visually impaired or blind as it applies to the classroom teacher will be stressed.

**SPE 507 Structure and Function of the Eye.** 3(3-0) F.

Prerequisite: SPE 345 and SPE 346, or SPE 682, or departmental permission. This course will provide prospective teachers and paraprofessionals who plan to work with children and youth who are low vision and blind with a fundamental understanding of the structure and anatomy of the eye. The course will address a full array of eye diseases and conditions and the educational implications.

**SPE 508 Low Vision.** 3(3-0) Su.

Prerequisite: SPE 345 and SPE 346, or SPE 682, or departmental permission. The course will apply practical application of low vision techniques used by teachers and rehabilitation specialists for the visually impaired. Terminology definitions, optics, and the use of low vision aides will be discussed. The student will use low vision stimulators to perceive, integrate and react to different environmental stimuli. Sections of the course will involve clinical low vision examinations. Development of the techniques and use of low vision stimuli will be instructed and applied by each student in the course. Examination and application of the fundamental principles and theory of sensory information acquisition by the visually impaired or blind as it applies to the classroom teacher will be stressed.

**SPE 509 Methods of Teaching the Visually Impaired.** 3(3-0) S.

Prerequisite: SPE 345 and SPE 346, or SPE 682, or departmental permission. This course is one of five courses offered to provide prospective teachers of children and youth with visual impairments competency based training for work with this population in K-12 schools. SPE 509 provides students with the pedagogical preparation to effectively teach Braille reading and writing, organize activities to promote literacy development, utilization of assistive technology including voice output and other computer based applications,



teach compensatory skills and strategies for mathematics, development of listening skills, as well as other instructional adaptations for the curricular areas of language arts, science, and social studies. In addition, the course focuses on the teaching of social skills needed for success in education and employment. The course requires a total of 60 clock hours working in settings with children and youth with visual impairments.

**Admission to the Teacher Education Program is required to enroll in any of the following courses.**

**SPE 510 Physical and Health Needs of Students with Disabilities.** 3(3-0) F.

Prerequisite: SPE 345 and SPE 346 and admitted to Teacher Education Program. This course will focus on the role of the special educator in management of health related issues such as monitoring medication and providing services to individuals with specialized self care needs and those with chronic illness. Emphasis will be placed on collaboration with related services staff and medical personnel as well as the integration of the student with health care needs into school and community settings.

**SPE 511 Braille Reading and Writing II.** 3(3-0) S.

Prerequisite: SPE 505 or equivalent or permission. The course focuses on Nemeth code and the use of assistive technologies. In addition, topics related to the use of tactile graphics, learning media, teaching strategies for mathematics, and transcription of Braille for music and foreign languages will be discussed.

**SPE 550 (350) Career/Vocational Education and Transition.** 3(3-0) F,S.

Prerequisite: admitted to Teacher Education Program. Legislation and process pertaining to transition services for individuals with disabilities will be emphasized. Students will explore vocational service delivery options and the role of the multidisciplinary team in the development and implementation of appropriate life skill programming across the age span.

**SPE 556 Topical Issues in Special Education.** 1-5 D.

Prerequisite: permission may be required—see schedule. To develop understanding and skills in relevant areas of special education. Each offering concerns a single topic. Number of class hours determined by semester hours of credit. May be repeated to a maximum of 5 hours when topics change. Variable Content Course.

**SPE 560 (360) Working with Families of Exceptional Individuals.** 3(3-0) F,S.

Prerequisite: admitted to Teacher Education Program. The relationship between families of children with special needs and various agencies is a central theme of this course. Techniques for working with a variety of families will be explored along with the impact of many ecological factors on families of students with disabilities.

**SPE 581 (484) Methods of Teaching Individuals with Behavior Disorders/Emotional Disturbance.** 3(3-0) S.

Prerequisite: SPE 488 and concurrent enrollment in SPE 491 and admitted to Teacher Education Program. This course will focus on application of theoretical perspectives and research-based methods of teaching students with emotional and behavior disturbances. Evaluation procedures appropriate to analysis of social behavior and monitoring behavioral change will be emphasized along with educational programming that promotes social development and inclusion.

**SPE 582 (482) Methods of Teaching Individuals with Learning Disabilities.** 3(3-0) F.

Prerequisite: SPE 345 and SPE 346 and SPE 488 and concurrent enrollment in SPE 492 and admitted to Teacher Education Program. Students will apply theoretical perspectives and research based methods in the development of diagnostic reports and educational plans for students with Learning Disabilities. Emphasis will be placed on the educator as a collaborator and advocate for provision of services in integrated settings; and on the educator as a specialist in evaluation, curricular accommodation, and modification.

**SPE 583 (483) Methods of Teaching Individuals with Mental Retardation/Developmental Disabilities.** 3(3-0) S,Su.

Prerequisite: SPE 345 and SPE 346 and SPE 488 and concurrent enrollment in SPE 493 and admitted to Teacher Education Program. The course will stress application of theoretical perspectives and research-based methods for individuals with mental retardation and developmental disabilities. Students will conduct an analysis of assessment data, apply data in the development of diagnostic conclusions and corresponding educational

plans. Emphasis will be placed on evaluation and programming for integration in school, community, and vocational settings.

**SPE 584 Language Development of Exceptional Students.** 3(3-0) F,S.  
Prerequisite: SPE 345 and SPE 346 and admitted to Teacher Education Program. Language development and intervention for exceptional individuals. Language assessment and curriculum development for individuals with disabilities, as well as for individuals who are culturally and ethnically diverse, will be addressed.

**SPE 587 Introduction to the Education of Students with Behavior Disorders.** 3(3-0) F.

Prerequisite: SPE 310 and admitted to Teacher Education Program. Students will acquire knowledge of identification, classification, diagnostic, and educational planning procedures based on the predominant conceptual models. Required for certification as teacher of students with behavior disorders.

**SPE 590 Approaches in Mainstreaming Exceptional Students.** 3(3-0) D.

Prerequisite: SPE 310 or SPE 340 and admitted to Teacher Education Program. Application of methods for modifying instructional materials and curriculum to help special education and regular classroom teachers meet the demands of mainstreaming.

**SPE 591 Clinical Practicum in Special Education.** 1-3 D.

Prerequisite: completion of SPE 491 and SPE 492 and SPE 493, or previous certification; and permission. This course is open to professionals with teaching certification or students pursuing a minor requiring credit hours in addition to SPE 491, 492, or 493. Students will collect data, develop and implement individual educational programs, and submit an extensive written report. Assignments will be based on area of certification need.

**The following courses are open only to students admitted to the graduate program or those with permission from a graduate faculty advisor.**

**SPE 610 Problems in Special Education.** 1-3 D.

Prerequisite: permission of department head. Major issues in the field of special education designed to meet individual student needs. May be repeated to a total of 3 hours.

**SPE 679 Application of Technology in Special Education.** 3(3-0) Su.

Prerequisite: admission to the graduate program for Special Education or permission of director. This course is designed to provide teachers with an in depth treatment of the research, theory, and application of computers and related technologies in the instruction of children and adults with learning, behavior, sensory, motor and communication disabilities. Students will incorporate the principles of reflective practice as it pertains to the assessment, selection of devices, and evaluation of assistive technologies for individuals with disabilities. The General Learning Outcomes 5, 9, and 10 presented in the Conceptual Framework of the Professional Education Unit (PEU) are the over arching tenets which guided the development and ongoing revisions to this course. Students acquire competencies related to the use of assistive devices and emerging technologies through participation in a 60 hour comprehensive field based experience in conjunction with schools and other agencies which serve individuals with disabilities.

**SPE 680 Contemporary Issues in Special Education.** 3(3-0) D.

Prerequisite: admission to the graduate program for Special Education or permission of the director. Analysis of trends, issues, and research in the field of special education will be reviewed and discussed. A comprehensive overview of local, state, and federal legislation and the impact on our public school special educational programs for children with disabilities will be discussed and analyzed. Historical and current litigation involving children with disabilities will be reviewed and discussed.

**SPE 681 Educational Consultation.** 3(2-2) F.

Prerequisite: admission to the graduate program for Special Education or permission of the director. The course seeks to develop students' skills in collaboration consultation. Emphasis will be placed on the development of innovative service delivery options, personnel training, and development of communication skills. Students will apply theory to practice in a field experience.

**SPE 682 Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities.** 3(1-4) D.

Prerequisite: admission to the graduate program for Special Education and SPE 345 and SPE 346 or equivalent; or permission of director. Students will

observe and participate in a variety of assessment and multidisciplinary team activities. Development of leadership skills will be stressed through participation in clinical field experiences involving standardized and performance evaluation of students with learning disabilities, analysis and synthesis of assessment data in clinical staffings, and development of educational programs. Students enrolled in this course should have prior knowledge of assessment including administration, scoring, and interpretation.

**SPE 683 Advanced Diagnosis and Remediation of Students with Low Incidence Disabilities.** 3(1-4) D.

Prerequisite: admission to the graduate program for Special Education and SPE 345 and SPE 346 or equivalent. Students will observe and participate in a variety of assessment and multidisciplinary team activities. Development of leadership skills will be stressed through participation in field experiences involving standardized and performance evaluation of students with mental retardation and developmental disabilities, analysis and synthesis of assessment data in clinical staffings, and development of individual educational plans. Students enrolled in this course should have prior knowledge of assessment including administration, scoring, and interpretation.

**SPE 684 Advanced Procedures in Teaching Students with Mild to Moderate Disabilities.** 3(2-2) S.

Prerequisite: admission to the graduate program for Special Education and SPE 345 and SPE 346 and SPE 488 and SPE 680; SPE 682 or concurrent enrollment; and a minimum of two special education methods courses prior to enrollment (SPE 581, 582, 583). The primary purpose of the course is to provide students with the knowledge and skills necessary for development and application of curricula appropriate to the needs of individuals with mild to moderate disabilities. Emphasis will be placed on the philosophical basis of curricula as well as principles of curricula design. Students will apply knowledge and skills in 60 hours of required field experiences.

**SPE 685 Advanced Procedures in Teaching Students with Low Incidence Disabilities.** 3(2-2) D.

Prerequisite: admission to the graduate program for Special Education and SPE 345 and SPE 346 and SPE 488 and SPE 680; SPE 683 or concurrent enrollment; and a minimum of two special education methods courses prior to enrollment (SPE 581, 582, 583). The primary purpose of the course is to provide students with the knowledge and skills necessary for development and application of curricula appropriate to the needs of individuals with mental retardation and other developmental disabilities. Emphasis will be placed on the philosophical basis of curricula as well as principles of curricular design. Students will apply knowledge and skills in field experiences.

**SPE 687 Advanced Behavioral Analysis and Intervention.** 3(3-0) F.

Prerequisite: admission to the graduate program for Special Education and SPE 488 and SPE 680 and SPE 682 and SPE 683 and SPE 684 and SPE 685. Study of human behavior. The goal of applied behavior analysis is to seek

understanding and improvement of human behavior. The goals of this class is to prepare graduate students to be contributing professionals in the area of applied behavior analysis; specifically, to become reflective behaviorists. Students will learn to identify, measure, and record the occurrence and nonoccurrence of behavior. Students will be expected to implement applied behavioral strategies and learn how to evaluate the success of single-subject studies as part of a 60 hour field experience.

**SPE 688 (686) Research Seminar in Special Education.** 3(3-0) F,S. Prerequisite: admission to the graduate program for Special Education and SPE 680 and SPE 682 and SPE 683 and SPE 684 and SPE 685 and SPE 687 and SFR 690. An in-depth study of a chosen topic in special education leading to the guided development and completion of an extensive research paper or major creative work. Graduate students are expected to complete a 60 hour field experience associated with the summer project.

**SPE 689 Practicum: The Exceptional Child.** 3(0-6) Su.

Prerequisite: admission to the graduate program for Special Education and SPE 680 and SPE 682 and SPE 683 and SPE 684 and SPE 685 and SPE 687. Student observes, teaches, and/or participates in professional activities in Special Education under the direction of a cooperating supervisor and University supervisor. Students will work with individuals or groups demonstrating effective teaching and behavior management techniques, as well as expertise in instructional planning and evaluation.

**SPE 690 Educational Workshop.** 1-5 D.

Workshop to upgrade understandings and skills concerned with the improvement of elementary or secondary teaching procedures, curriculum, supervision, administration or guidance. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. May be repeated to a maximum of 5 hours credit. 30 clock hours equal 1 semester hour.

**SPE 692 Advanced Diagnosis and Remediation of Students with Disabilities Lab.** 2(0-4) S.

Prerequisite: admission to the graduate program for Special Education; and concurrent enrollment with SPE 682 or SPE 683; and SPE 345 or SPE 346 or equivalent. Students will conduct standardized and informal assessments in the field as part of a 60 hour practicum/lab experience and develop a comprehensive case history. Emphasis will be placed on development of validated educational programs.

**SPE 699 Thesis.** 1-6 D.

Prerequisite: admission to the graduate program for Special Education and SFR 690 and SPE 679 and SPE 680 and SPE 682 and SPE 683 and SPE 684 and SPE 685 and SPE 687 and SPE 689. Independent research and study connected with preparation of thesis. May be repeated to a maximum of 6 hours credit.

## Greenwood Laboratory School

Laboratory School, Phone: 836-5124, FAX: 836-8449

Email: Greenwood@missouristate.edu, Department Web Site: <http://education.missouristate.edu/greenwood/>

**Director:** Assistant Professor Janice Duncan, Ed.D.

**Assistant to the Director:** Judy A. Gregg, M.A.

**Associate Professors:** Connie J. Claybough, M.S.Ed.; Steven W. Hinch, Ph.D.; Janice E. Reynolds, M.S.

**Assistant Professors:** Vicki L. Dunlop, M.Ed.; Candace D. Fisk, M.A.; Kathryn M. Gibson, M.A.; Doris J. Grevillius, M.S.; Cheryl K. Johnson, M.S.; Ruth C. Peñaherrera-Norton, M.Ed.

**Instructors:** Richard A. Ruhe, M.A.; Joseph B. Shantz, M.Ed.; D'Arcy C. Simmons, M.S.

**Lecturers:** Susan L. Baldwin, B.S.Ed.; Hugh D. Brewer, M.S.; David C. Davison, M.S.; Rhonda L. Glaser, B.S.; Patricia Goddard, B.S.Ed.; Kent O. Hedgpeth, M.Ed.; Ruth Ann Johnson, M.Ed.; Jill R. Martin, M.S.Ed.; Darren S. Taylor, M.S.

**Emeritus Professors:** Charles R. Baird, M.A.; M. Pauline Barker, M.Ed., M.A.; Anna Lee Dugan, M.S.; Helen Huff, M.S.; James F. Jester, Ed.D.; Richard E. Moore, M.S.; Phyllis R. Shoemaker, M.Ed.; Lillian Rosemary Williams, M.A.; Delmar D. Wipf, M.S.

### General Description

Greenwood Laboratory School was founded in 1908 to provide a comprehensive education program to students from kindergarten through senior level while also providing University students with opportunities and experiences to develop strong teaching skills. Greenwood has an enrollment of approximately 378 students and well over 95% of each graduating class enrolls in a post-secondary educational institution. The average ACT composite score for the senior class is 26.6 while the state average is 22.6 and the national average is 21.9.

Greenwood Laboratory School believes that students should be given the opportunity to develop a wide variety of knowledge and skills, think critically, set challenging goals, respect diversity, adopt an attitude of social responsibility, and become lifelong learners. Consistent with the University's mission in public affairs, the purpose of the Greenwood Laboratory School is to develop educated persons while focusing on three themes: relative to education of youth, relative to collaboration with the Missouri State University community, and relative to collaboration with other Missouri educational and business organizations.

Greenwood Laboratory School serves as a member of the Professional Education Unit in a University-wide effort of preparing students at all levels for the twenty-first century. Greenwood provides the opportunity for the students and faculty to engage in

clinical field experiences, experimentation, innovation, research, information sharing, and staff development. Through these activities, Greenwood Laboratory School functions within the College of Education to create "a legacy of learning." In addition, the mission of the Greenwood Laboratory School is consistent with the University's mission statement of public affairs mission in that the school produces educated persons at the kindergarten through twelfth grade level in collaboration with Greenwood families, the University, the community, and other educational institutions. The school provides educational opportunities that produce individuals who are competent, confident, creating, caring and lifetime learners.

Greenwood is accredited by the North Central Association of Schools.

### Admission Policy

Students are enrolled in Greenwood Laboratory School from registration lists maintained chronologically by date of registration. A maximum of 24 are enrolled in kindergarten, 26 in first grade, 28 in second grade and 30 in grades 3 through 12. At each grade level two thirds of the students are admitted from the community and one third from the faculty and staff of SMSU. Annual tuition is charged and is subject to change each year.

## College of Health and Human Services

110 Professional Building, Phone: 836-4176, FAX: 836-6905  
 Email: [CollegeofHealthandHumanServices@missouristate.edu](mailto:CollegeofHealthandHumanServices@missouristate.edu)



Biomedical Science Laboratory.

**Dean: Professor Cynthia L. Pemberton, Ph.D.**

**Associate Dean: Professor Helen C. Reid, Ph.D.**

The College of Health and Human Services includes:

**Department of Biomedical Sciences**

**Department Head:** Professor Harold B. Falls, Jr., Ph.D.  
 400 Professional Building, Phone 836-5603

**Department of Communication Sciences and Disorders**

**Department Head:** Professor Neil J. DiSarno, Ph.D.  
 237 Professional Building, Phone 836-5368

**Department of Health, Physical Education, and Recreation**

**Acting Department Head:** Associate Professor Sara G. McCallister, Ed.D.  
 103 McDonald Arena, Phone 836-5370

**Department of Nursing**

**Department Head:** Associate Professor Kathryn L. Hope, Ph.D.  
 300 Professional Building, Phone 836-5310

**Department of Physical Therapy**

**Acting Department Head:** Professor Loretta M. Knutson, Ph.D.  
 204 Physical Therapy and Physician Assistant Building, Phone 836-6179

**Department of Physician Assistant Studies**

**Department Head:** Assistant Professor Steven T. Dodge, M.D.  
 112 Physical Therapy and Physician Assistant Building, Phone 836-6151

**Department of Psychology**

**Department Head:** Professor Frederick R. Maxwell, Ph.D.  
 109 Hill Hall, Phone 836-4790

**School of Social Work**

**Director:** Associate Professor Lola Butler, Ph.D.  
200 Professional Building, Phone 836-6953

**Department of Sports Medicine and Athletic Training**

**Acting Department Head:** Assistant Professor Gary L. Ward, M.S.  
160 Professional Building, Phone 836-8553

**Centers****Learning Diagnostic Clinic**

See "Student Services" section for details.

**Speech – Language and Hearing Clinic**

The Clinic provides evaluation and treatment for all ages in the areas of audiology, education of the hearing impaired and speech-language pathology. The Parent-Infant Program for hearing impaired infants and parents and the Preschool for the Deaf provide teaching and support for the development of language, speech, social and cognitive skills. The Audiology Program includes hearing evaluations, hearing aid fitting, assistive listening device fitting and aural rehabilitation. The Speech-Language Pathology Program provides individual diagnosis and treatment for all types of communication disorders. Graduate students in the Communication Sciences and Disorders Department provide services supervised by certified and licensed professionals.

**Background Security Check and Drug Screening Requirements**

Some academic programs in the health related areas will require students to pass a background security check and a drug screening. These programmatic screening policies are a result of health organizations' requirements for placement at their clinical sites. Students will be financially responsible for the background security check and drug screening. Please see each academic program requirements, applications materials and admission standards for specific detailed information. Students who do not pass the appropriate screenings may not be able to complete the program or practice professionally.

## Department of Biomedical Sciences

400 Professional Building, Phone: 836-5603, FAX: 836-5588

Email: [BiomedicalSciences@missouristate.edu](mailto:BiomedicalSciences@missouristate.edu)

Department Web Site: [www.missouristate.edu/bms](http://www.missouristate.edu/bms)

**Department Head:** Professor Harold B. Falls, Jr., Ph.D.

**Professors:** Michael M. Craig, Ph.D.; Christopher C. Field, Ph.D.; Albert R. Gordon, Ph.D.; Joanne M. Gordon, M.S.N., Ph.D.; Helen C. Reid, R.D., Ph.D.; Benjamin F. Timson, Ph.D.

**Associate Professors:** Richard Garrad, Ph.D.; Cynthia J. Heiss, Ph.D.; E. Michael Hendrix, Ph.D.; Colette M. Witkowski, Ph.D.

**Assistant Professor:** Scott D. Zimmerman, Ph.D.

**Instructor:** Carmen Boyd, M.S., L.P.C., R.D.

**Lecturers:** Greg T. Krumme, M.S.; Deborah K. Piland, R.D., M.S.

**Adjunct Professors:** Jack Bagby, M.D.; Bradley Bowenshulte, M.D.; Jean E. Cooper, M.P.A., (ASCP); Jennifer Crites, M.D.; Steven Ellis, M.D.; John Esther, M.D.; Glenn Fromme, M.D.; Charles Halter, M.D.; J. Scott Harris, D.O.; Douglas D. Hubbard, MT(ASCP); Gregory Janeczko, M.D.; William Kirk, M.A., C.R.N.A.; Creig Lobdell, M.D.; Richard H. Maughan, M.D.; Stephen J. Neu, M.D.; John Schneider, M.D.; Diana Spade, M.D.; Wade Shipman, D.O.; Mary Tucker, M.S.; Dawn Webster-Zablocki, M.D.; Connie Wilkens, MT(ASCP); Jay Woodring, M.D.; Joseph Yassa, M.D.; Alan Zablocki, M.D.

**Emeritus Professors:** Paul J. Cameron, M.A.; L. Dennis Humphrey, Ed.D.; Wayne C. McKinney, Ph.D.; Harley E. Mortensen, Ph.D.

### General Education Courses

The following courses may be counted toward partial fulfillment of the General Education Natural World Area of Inquiry requirement: BMS 100, 105, 110.

## Majors

### Cell and Molecular Biology

#### (Comprehensive)

#### Bachelor of Science

The comprehensive major, **Cell and Molecular Biology (CMB)**, is a rigorous and selective program in the sciences that prepares academically-serious students for:

- 1) graduate work in cell biology or molecular biology,
- 2) graduate work in fields such as biotechnology, biochemistry, physiology, pharmacology, and microbiology where a strong undergraduate foundation in cell and molecular biology would be an asset,
- 3) professional schools of medicine, dentistry, optometry, or other health-related professions or paraprofessions, and,
- 4) employment in cell biology and biotechnology-based industries.

Because of sequential prerequisites, limited course offerings, and tight course scheduling, students seeking formal admission to the degree program must begin to plan their program with a Cell and Molecular Biology (CMB) advisor in the Department of Biomedical Sciences early during their freshman year.

#### Admission Requirements

Formal admission to the Cell and Molecular Biology (CMB) major requires completion of at least 25 hours of course work, including BMS 110, 231, and CHM 160, and a cumulative and science GPA of 2.50 or higher. A student must achieve a grade of "C" or better in all specific general education requirements (A below), all required BMS core courses (B1 below), and all requirements from other departments (B2 below). A grade of "C" or better must be obtained in a prerequisite course prior to taking a sequential course. In the terminal semester each CMB major is required to take a comprehensive examination in Cell and Molecular biology.

#### A. General Education (see General Education section of catalog)

Specific General Education Requirements:

CHM 160(4); PHY 123(4) or 203(5); MTH 287(3) or 261(5)

#### B. Major Requirements (54-57 hours)

1. Biomedical Sciences Courses Required: BMS 110(4), 231(4), 321(4), 494(1), 521(4), 525(4)
2. Requirements From Other Departments: CHM 170(3), 175(2), 310(5), 311(5) or 312(3); PHY 124(4) or 204(5)
3. Other requirements: At least 16 hours of appropriate electives, selected in consultation with the student's advisor, numbered

300 or above. At least 10 of these elective hours must carry a BMS prefix. Recommended Electives: BMS 308(4), 497(1-3), 498(1-3), 514(2), 516(4), 524(3), 529(3), 540(2), 558(3), 569(3), 582(4), 584(3), 585(4); BIO 310(5), 511(4); CHM 505(4), 550(3)

#### C. General Baccalaureate Degree Requirements

(see "Academic Programs and Requirements" section of catalog)

### Dietetics (Comprehensive)

#### Bachelor of Science

The Dietetics program is currently granted initial accreditation by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, (312) 899-5400. Graduates who meet the requirements for a Verification Statement are eligible to apply for a CADE-accredited Dietetics Internship and, following its successful completion, to take the national registration examination to become credentialed as a Registered Dietitian (RD).

#### Requirements for ADA Verification Statement of Completion of Didactic Program in Dietetics

A cumulative GPA of at least 2.75 with a grade of "C" or higher in all courses required for the major.

#### Admission Requirements

Completion of at least 45 hours, including BMS 240 and BMS 308 with a cumulative GPA of at least 2.75.

#### A. General Education (see General Education section of catalog)

The following program requirements may be used to fulfill general education requirements: BMS 110(4); CHM 105(5) or 160(4); CIS 101(2) or CSC 101(2); PSY 121(3); ECO 155(3). Other recommended general education courses include: PHI 105(3), PHI 115(3), and SOC 150(3).

#### B. Major Requirements

1. Biomedical Science Courses: BMS 110(4), 240(3), 305(1), 307(4), 308(4), 330(3), 331(4), 332(2), 333(3), 335(3), 340(2), 430(3), 432(3), 436(4), 438(5), 439(1), 440(2), 445(3), 446(4), 495(1)
2. Related Requirements: ACC 109(1); BIO 210(3); CHM 105(5) or 160(4) and 170(3) and 175(2); CHM 200(5), 350(3); CIS 101(2) or CSC 101(2); ECO 155(3); ENG 321(3); MGT 320(3) or 340(3); MTH 340(3) or 545(3) or PSY 200(3) or QBA 237(3) or SOC 302(3); PSY 121(3). Recommended electives: CHM 351(2); MKT 350(3)

#### C. General Baccalaureate Degree Requirement

(see "Academic Programs and Requirements" section of catalog).

## Clinical Laboratory Sciences-Medical Technology (Comprehensive)

### Bachelor of Science

Students desiring to enter clinical laboratory sciences-medical technology may secure preparatory training at Missouri State University. All the requirements for the Bachelor of Science must be met with a minimum of 95 credit hours, including the capstone course, completed prior to entry into the clinical phase of the program. For the major, the University will grant 30-39 hours of upper division credit upon completion of the work given in a NAACLS approved school of clinical laboratory sciences-medical technology. The actual number of hours granted depends on which school of clinical laboratory sciences-medical technology the student attends. Before a student matriculates to an approved school, he/she must secure a letter from the Degree Check Office which indicates the completion of all requirements for the degree other than the training at the school of clinical laboratory sciences-medical technology.

Missouri State University has entered into agreements with the school of clinical laboratory sciences-medical technology at St. John's Medical Center (Joplin), Cox Medical Center (Springfield), and North Kansas City Hospital (Kansas City) whereby a clinical laboratory sciences-medical technology major may complete his/her work at one of those schools. Under these agreements, the student must meet the requirements for admission at the school of his/her choice as outlined above. Courses taken at one of the above schools will be entered directly on the Missouri State academic record and the grades earned in those courses will be calculated into the cumulative Missouri State grade point average. This combined averaging of grades applies only to clinical laboratory sciences-medical technology students attending one of the affiliated schools. MTC courses may not be used toward satisfying the University's residence requirements for graduation. Those requirements must be met before entering a school of clinical laboratory sciences-medical technology. The descriptions of the courses to be taken at the school of clinical laboratory sciences-medical technology are listed under the MTC prefix.

Neither admission to the Missouri State program of preparatory training nor completion of that program will insure admission to a school of clinical laboratory sciences-medical technology. The student may apply for admission at the beginning of the third year at Missouri State, but acceptance by the clinical laboratory sciences-medical technology school is at the discretion of that school. Recent graduates of other majors who have met the prerequisites may also apply to these schools.

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: BIO 121(4) or BMS 110(4); and CHM 160(4)
- B. Major Requirements:
  1. Additional Science Courses Required: BMS 231(4) or BIO 235(4); and BMS 307(4) and BMS 308(4); and BIO 310(5) and BIO 511(3); CHM 170(3) and CHM 175(2); and CHM 200(5) or CHM 310(5); and BMS 321(4) or CHM 350(3) and CHM 351(2); and statistics (BIO 550 or ECO 308 or MTH 340 or PSY 200 or QBA 237 or SOC 302 or equivalent).
  2. Required Emphasis: Select one of the following emphases:
    - a. Microbiology Emphasis: BIO 520(3) and BMS 524(3)
    - b. Molecular Diagnostics Emphasis: BMS 321(4) and BMS 521(4) and BMS 525(4). Note: BMS 321 may also count as one of the required science courses.
    - c. Management Emphasis: MGT 286(3) and MGT 340(3)
  3. Additional electives. With advisor approval, choose at least one additional course from the following that is not taken in the required courses or emphasis: BMS 321(4) or BIO 520(3) or BMS 521(4) or BMS 524(3) or CHM 330(5) or CHM 350(3) and CHM 351(2) or MGT 286(3) or MGT 340(3)
  4. Clinical Course Requirements: MTC 401(10-12), 402(1-3), 403(4-6), 404(3-4), 405(7), 406(3-5), 407(2)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minors

### Biomedical Sciences

#### Bachelor of Arts

Required Courses: BMS 110(4), 230(3), 307(4), 308(4). BIO 101 or 102 do not count toward the minor.

### Biomedical Sciences

#### Bachelor of Science

- A. Required Courses: BMS 110(4), 230(3), 307(4), 308(4)
- B. Choose Biomedical Sciences electives to bring total hours in the minor to at least 20 hours. BIO 101 or 102 will not count toward the minor.

### Exercise Biology

#### Bachelor of Science

- A. Required Courses: BMS 430(3), 432(3), 467(3), 520(3) or CHM 350(3), BMS 567(4)
- B. Choose electives from the following to bring total hours in the minor to at least 21 hours: BMS 230(3); BMS 260(4), 335(3), 563(3), 570(4); PED 369(3); PSY 508(3)

### Molecular Biology

#### Bachelor of Science

Required Courses: BMS 521(4), 524(3), 525(4), 529(3), 558(3); BIO 310(5)

### Nutrition

#### Bachelor of Arts

#### Bachelor of Science

- A. Required Courses: BMS 240(3), 333(3)
- B. Choose electives from the following to bring total hours in the minor to at least 20 hours: BMS 300(1), 330(3), 331(4), 332(2), 335(3), 340(2), 432(3), 430(3), 497(1-3). No more than 3 hours of BMS 497 credit may be applied to the minor.

## Graduate Programs

The Master of Science degree offers majors in Cell and Molecular Biology and Nurse Anesthesia. See the Graduate Catalog for details.

### Accelerated Master of Science in Cell and Molecular Biology Program

Eligible Missouri State Cell and Molecular Biology majors may apply for preliminary acceptance into the Master of Science program in Cell and Molecular Biology after admission requirements for the accelerated master's option have been satisfied. If accepted, the undergraduate program requirement of BMS 521 (Molecular Cell Biology), BMS 525 (Molecular Biology) and BMS 558 (Recombinant DNA Techniques), may be counted toward both the undergraduate and graduate degrees. This option offers an opportunity for Cell and Molecular Biology majors with significant undergraduate laboratory research experience to complete the requirements for the Master of Science degree in Cell and Molecular Biology in ten semesters and a summer with a minimum of 146 semester hours rather than the typical twelve semesters with a minimum of 157 semester hours. See the Graduate Catalog or contact the Department of Biomedical Sciences for further information and guidelines.

## Nurse Anesthesia Courses

*These courses are open only to those students who have been admitted to the Nurse Anesthesia, Master of Science degree. The ANE courses are taught by adjunct faculty at St. John's Regional Health Center and will not be charged the basic per credit hour fee or the student services fees.*

**ANE 500 Clinical Conference I.** 1(1-0) F,S.

Weekly review of significant anesthetic cases demonstrating management problems and complications involving varied pathology.

**ANE 505 Orientation to Clinical Anesthesia.** 1(1-0) F,S.

Introduction to anesthesia equipment, monitoring equipment and techniques, positioning, intravenous considerations, records, departmental management, ethics, departmental organization and function, legal and professional aspects.

**ANE 510 Physics and Chemistry of Anesthesia.** 1(1-0) F,S.

A presentation of the principles and laws of physics and chemistry applicable to the field of anesthesia.

**ANE 530 Application of Anatomy and Physiology to Anesthesia I.** 1(1-0) F,S.

An in-depth analysis of structures and function of the respiratory, circulatory and nervous systems emphasizing the relationships to anesthesia management.

**ANE 540 Application of Anatomy and Physiology to Anesthesia II.** 1(1-0) F,S.

An in-depth analysis of the special relationships between anesthesiology and the endocrine system, muscles, liver, kidney, altitude, and hypothermia.

**ANE 560 Introduction to Clinical Anesthesia.** 2(2-0) F,S.

Preoperative evaluation of patients, airway management, inhalation techniques, common complications of inductions and emergencies.

**ANE 600 Clinical Conference II.** 1(1-0) F,S.

Prerequisite: ANE 500. A review of significant cases involving complex anesthesia considerations.

**ANE 601 Clinical Conference III.** 1(1-0) F,S.

Prerequisite: ANE 600. Continuing review of significant cases involving complex anesthesia considerations.

**ANE 602 Clinical Conference IV.** 1(1-0) F,S.

Prerequisite: ANE 601. Continuing review of significant cases involving complex anesthesia considerations.

**ANE 605 Principles of Clinical Anesthesia I.** 2(2-0) F.

Prerequisite: ANE 560. Requirements for specialized care. Pediatrics, obstetric, neonatology, geriatric, regional and general anesthesia.

**ANE 610 Pharmacology of Anesthesia I.** 1(1-0) F.

Prerequisite: ANE 505. Introductory course in pharmacology which summarizes basic pharmacological concepts.

**ANE 618 (BMS) Clinical Practicum.** 1-4, F,S,Su.

Prerequisite: permission of instructor. Clinical experience in the anesthesiology department at St. John's Regional Health Center. Course may be repeated to a total of 20 hours.

**ANE 625 Special Considerations of Anesthesia Care I.** 2(2-0) F.

Prerequisite: ANE 560. A review of subjects essential to the practice of anesthesia; O.R. Safety, medico-legal aspects, equipment, CPR lab values, immunology, enzymes in medicine.

**ANE 630 Pharmacology of Anesthesia II.** 1(1-0) F.

Prerequisite: ANE 505. An in-depth review of all drugs commonly used to provide the state of anesthesia.

**ANE 635 Principles of Clinical Anesthesia II.** 2(2-0) S.

Prerequisite: ANE 560. Continuation of specialized care. Neuroanesthesia, cardiovascular, thoracic, and outpatient anesthesia pain problems, and recovery room care.

**ANE 640 Pharmacology of Anesthesia III.** 1(1-0) S.

Prerequisite: ANE 560. Review of the effects of drugs required by medical patients whose drugs must continue intraoperatively.

**ANE 655 Special Considerations of Anesthesia Care II.** 2(2-0) S.

Prerequisite: ANE 560. Review of fluids, acid-base and blood gases, pulmonary function testing, inhalation therapy, ventilators, tracheostomy, and respiratory distress syndrome.

**ANE 660 Pharmacology of Anesthesia IV.** 1(1-0) S.

Prerequisite: ANE 560. Review of drugs frequently used by internist or surgeon, affecting anesthesia course.

**Biomedical Sciences Courses****BMS 100 Concepts and Issues in the Life Sciences.** 4(4-0) F,S.

A non-laboratory course that partially fulfills the general education requirement in the natural sciences. A foundation of knowledge and concepts in science and human biology. The nature of science, applications, and relationships of knowledge leading to an understanding of the biological individual and biomedical issues are stressed. Students will receive credit for only one of the following: BMS 100, 105, or 110.

**BMS 105 Concepts and Laboratory in the Life Sciences.** 4(3-2) F,S.

A laboratory course that partially fulfills the general education requirement in the natural sciences. A foundation of knowledge and concepts in science and human biology with laboratory experiences. The nature of science, applications, and relationships of knowledge leading to an understanding of the biological individual, biomedical issues, and human relationships to the environment are stressed. This course is not designed for students who plan more advanced laboratory work in the life sciences. Students will receive credit for only one of the following: BMS 100, 105, or 110.

**BMS 110 Concepts in the Biomedical Sciences.** 4(3-2) F,S.

An introductory course that focuses on examples in human biology and prepares students for further study in the biomedical sciences or cell/molecular biology. Partially fulfills the general education requirement for a laboratory course in the natural sciences. Designed for students planning further laboratory or course work in the biomedical sciences, such as departmental majors, minors, and others preparing for courses in human genetics, human anatomy and human physiology. Recommended for other science majors, students in pre-nursing and those preparing for various allied health professions, most preprofessional students, students in the social sciences, and others who require an understanding of the biological human. Students will receive credit for only one of the following: BMS 100 or 105 or 110.

**BMS 111 Introductory Laboratory in the Biomedical Sciences.** 1(0-2) F,S.

Prerequisite: BMS 100 or BMS 105 or permission of instructor. This course is identical to the laboratory portion of BMS 110 and is designed for students who require intensive introductory laboratory experience to prepare for future laboratory work in the biomedical sciences. Cannot receive credit for both BMS 110 and BMS 111.

**BMS 113 (HLH 113) Introduction to Medical Technology.** 1(0-2) S.

Designed to acquaint students with the field of medical technology through performance of simple procedures and explanation of test principles and diagnostic interpretation of results. Also designed to provide adequate exposure to the medical laboratory so that the student will be able to make a rational decision concerning a career in laboratory medicine.

**BMS 195 Introduction to the Health Professions** (Identical with HLH 195) 1(0-2) F,S.

Designed to familiarize students with a variety of health career opportunities, and to provide guidance in early curriculum planning and alternative career options.

**BMS 230 Human Genetics.** 3(3-0) F,S.

Prerequisite: BMS 110 or BIO 121. A survey of genetic principles in humans with emphasis on molecular genetics and human genetic abnormalities causing diseases and behavioral changes. A portion of the course requires students to research, report on, and discuss current topics in human genetics. Cannot receive credit for both BMS 230 and BMS 231.

**BMS 231 Human Genetics with Laboratory.** 4(3-2) F,S.

Prerequisite: "C" grade or better in BMS 110 or BIO 121; and CMB or CLS-MT major or permission. A survey of genetic principles in humans with emphasis on molecular genetics and human genetic abnormalities



causing diseases and behavioral changes. A portion of the course requires students to research, report on, and discuss current topics in human genetics. The laboratory emphasis is on techniques and skills that expand the understanding of genetic concepts. Cannot receive credit for both BMS 230 and BMS 231.

**BMS 232 Human Genetics Laboratory.** 1(0-2) F,S.

Prerequisite: BMS 230 or permission of instructor. This course is identical to the laboratory portion of BMS 231 and is designed for students who require laboratory experience in genetics to prepare for future laboratory work in the biomedical sciences. Cannot receive credit for both BMS 231 and 232.

**BMS 240 Introduction to Nutrition.** 3(3-0) F,S.

Prerequisite: CHM 105 or CHM 160, or concurrent enrollment. Study of nutrients with emphasis on their sources and functions in human growth and health. Discussion of current nutrition issues. A grade of "C" or better is required in this course in order to take any nutrition courses numbered 300 and above or BMS 567. Course may not be taken Pass/Not Pass.

**BMS 260 (360) Biology of Aging.** 4(4-0) F.

Prerequisite: BMS 105 or BMS 110 or BIO 121; and either CHM 105 or CHM 106 or CHM 160. The physiology and biology of aging in humans. Designed for gerontology majors.

**BMS 300 Service Learning in Biomedical Sciences.** 1 F,S.

Prerequisite: 30 hours and concurrent enrollment in BMS 240. This service component for an existing course incorporates community service with classroom instruction in one of the subdisciplines of Biomedical Sciences to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**BMS 305 Introduction to Nutrition and Dietetics.** 1(0-2) F,S.

Prerequisite: BMS 240 or concurrent enrollment. Examination of the role of dietetics in the health care system, exploration of the responsibilities of nutrition and dietetics professionals, legal and ethical considerations, educational requirements and career opportunities.

**BMS 307 Human Anatomy.** 4(3-2) F,S.

Prerequisite: "C" grade or better in BMS 105 or BMS 110, or BIO 102 or BIO 121. Lecture and laboratory study of selected human cells, tissues, organs and organ systems. Mammalian examples of various systems studied in laboratory. Credit will only be awarded once for BMS 267, 307 or BMW 267.

**BMS 308 Human Physiology.** 4(3-2) F,S.

Prerequisite: "C" grade or better in BMS 307 or BIO 380; and "C" or better in CHM 105 or CHM 160. A study of mechanisms for maintaining homeostasis in the human organism. Topics covered include cellular structure and function, neurophysiology, metabolism, endocrinology, cardiovascular, pulmonary, renal, and gastrointestinal physiology. Emphasis is on cellular and molecular mechanisms of physiology. A grade of "C" or better is required in this course in order to take BMS 567. Credit will only be awarded once for BMS 268, 308 or BMW 268. Course cannot be taken Pass/Not Pass.

**BMS 310 Nutrition and Physical Activity in Aging.** 3(3-0) S.

Prerequisite: BMS 260 or BMS 308. Study of the nutritional requirements and physical activity needs of the elderly with emphasis on cardiorespiratory, musculoskeletal, and metabolic health and disease. Designed for gerontology majors, gerontology minors, and others interested in aging.

**BMS 320 Molecular Biology and Metabolism.** 3(3-0) F,S.

Prerequisite: BMS 230 or BMS 231. Recommended: past or concurrent enrollment in CHM 200 or CHM 310. An introduction to the types and consequences of small and large molecular interactions in the living cell with an emphasis on the integrated metabolic exchanges of information,

energy, and materials among cellular compartments. Cannot receive credit for both BMS 320 and BMS 321.

**BMS 321 Biomolecular Interactions.** 4(3-2) F,S.

Prerequisite: "C" grade or better in BMS 231. Recommended: concurrent enrollment in CHM 310. An introduction to the types of small and large molecular interactions important in cell and molecular biology. The course emphasizes the use of interactive computer software in order to visualize and manipulate the structures of molecules and molecular combinations. Emphasis on laboratory skills and techniques used in the biomedical sciences. Cannot receive credit for both BMS 320 and BMS 321.

**BMS 322 Laboratory Methods in the Biomedical Sciences.** 1(0-2) D.

Prerequisite: BMS 230 or BMS 231 or BIO 235. This laboratory course familiarizes students with the instrumentation, proper laboratory techniques, and analytical procedures that are used in the biomedical sciences. Cannot receive credit for both BMS 321 and BMS 322.

**BMS 330 Food Selection and Preparation for Health.** 3(2-2) F,S.

Prerequisite: BMS 240 or concurrent enrollment. Selection and preparation of food that supports optimum health. Food and nutrition information on grocery shopping, dining out, preparation of meals, snacks, and special occasion foods.

**BMS 331 Food Science.** 4(2-4) S.

Prerequisite: BMS 240 and CHM 200; and BMS 330 or HRA 321. Experimental approach to the study of physical and chemical factors influencing food quality during processing, preparation and storage.

**BMS 332 Food and Culture.** 2(2-0) F,S.

Prerequisite: BMS 240 or permission of instructor. Exploration of ethnic, religious and regional influences on nutrition and health status, including the role of diet in traditional health beliefs.

**BMS 333 (433) Nutrition Throughout the Life Span.** 3(3-0) F.

Prerequisite: BMS 240. Factors that influence nutrient requirements during pregnancy, lactation, infancy, childhood, adolescence and aging. Recommendations for food intake based upon assessment of case studies.

**BMS 335 Nutritional Assessment.** 3(2-2) F.

Prerequisite: BMS 240. Methods used to assess the nutritional status of individuals and populations. Interpretation of anthropometric, biochemical, clinical and dietary data as a basis for recommending nutritional care.

**BMS 340 Nutrition Education and Communications.** 2(1-2) F.

Prerequisite: BMS 240 and BMS 330 and PSY 121. Application of educational theories and techniques to nutrition education. Emphasis on subject matter and skills necessary to develop, implement, evaluate and document nutrition education sessions for individuals and groups utilizing a variety of communication methods. Development of nutrition educational materials.

**BMS 380 Cooperative Education in Biomedical Sciences.** 1-3, D.

Prerequisite: permission of department head. Provides the opportunity to earn academic credit by participation in supervised work experience. A variable content course that may be repeated to a maximum of 6 semester hours. Graded Pass/Not Pass only.

**BMS 405 Clinical Practicum: Preventive and Rehabilitative Exercise.** 1-3, F,S.

Prerequisite: BMS 567 or PED 369 and permission of department head. Field experience in a comprehensive health enhancement organization under the supervision of a certified preventive and rehabilitative program director. Students are assigned to Hammons Heart Institute. May be repeated for credit to a maximum of 6 hours. Enrollment is limited. Students planning to participate in the clinical practicum must contact the Biomedical Sciences Department Head during the first two weeks of registration. Graded Pass/Not Pass only.

**BMS 430 Sports Nutrition and Exercise Physiology.** 3(3-0) F.

Prerequisite: BMS 240 and BMS 308. Nutrition and exercise physiology as related to athletic performance and other areas of physical activity, including training and competition nutrition, fluids and hydration, weight management, supplements and ergogenic aids, the child athlete, and eating disorders.

**BMS 432 Human Nutrition and Metabolism.** 3(3-0) S.

Prerequisite: BMS 240 and BMS 308, and CHM 200 or concurrent enrollment in CHM 200. Food nutrients, their digestion, absorption and metabolism. Methods of determining requirements and interrelationships of nutrients.

**BMS 436 Medical Nutrition Therapy I.** 4(3-2) F.

Prerequisite: BMS 335 and BMS 432 and CHM 350 (or concurrent enrollment in CHM 350). Principles and application of medical nutrition therapy as related to disease and stress. Transportation required.

**BMS 438 Administrative Dietetics.** 5(3-4) F.

Prerequisite: BMS 240 and either BMS 330 or HRA 321; and BIO 210 and ACC 109 and either MGT 320 or MGT 340. Application of managerial processes to the delivery of food to people in a variety of settings. Menu planning; recipe development; food procurement; receiving and storage; food production; quality assurance; personnel selection, training, supervision and evaluation; management of financial resources; equipment selection and layout; computer-assisted management and distribution. Transportation required.

**BMS 439 Senior Seminar in Dietetics.** 1(1-0) F.

Prerequisite: Dietetics major and admitted to degree program and 90 hours. Procedures and application process for obtaining professional status through dietetic registration and licensure. Professional ethics and legal responsibilities. Strategies for integration of current issues into dietetic practice.

**BMS 440 Nutrition Counseling.** 2(1-2) F.

Prerequisite: BMS 436 or concurrent enrollment. Interviewing techniques, counseling theory and methods applied to nutrition counseling. Emphasis on development of skills necessary to plan, implement, evaluate and document culturally sensitive nutritional care for individuals and groups. Includes simulated techniques and work with clients in selected settings.

**BMS 445 Community Nutrition.** 3(2-2) S.

Prerequisite: BMS 335 and PLS 101. Recommended: BMS 333 and either MGT 320 or MGT 340. Factors affecting the nutritional status of the community; nutritional assessment and surveillance methodologies; governmental nutrition policies and legislation; community resources. The role of the community dietitian in nutrition program planning, implementation and evaluation. Transportation required.

**BMS 446 Medical Nutrition Therapy II.** 4(3-2) S.

Prerequisite: BMS 436. Principles and application of medical nutrition therapy as related to complex disease states. Transportation required.

**BMS 450 (150) Introduction to Biomedical Biomechanics.** 3(3-0) S.

Prerequisite: BMS 308. Biomechanical fundamentals and principles as they apply to the human organism; description of normal motion emphasizing orthopedic biomechanics and neuromuscular control.

**BMS 455 Astrobiology.** 1(1-0) D.

Prerequisite: introductory course in BMS or BIO; and introductory course in AST, PHY, CHM or GLG; or permission of the instructor. Scientific, technological, and philosophical foundations of astrobiology with emphasis on origins of life, life beyond Earth, and searches for extraterrestrial intelligence (SETI). Content stresses scientific evidence and knowledge, not science fiction.

**BMS 460 Understanding AIDS.** 1(1-0) S.

Prerequisite: BMS 100 or BMS 105 or BMS 110 or BIO 100 or BIO 102 or BIO 121. Biological aspects of infection by HIV (human immunodeficiency virus) and the disease syndrome known as AIDS (acquired human immunodeficiency syndrome). Recommended for health care workers or students planning to enter the health and service professions, individuals who work with or counsel populations that include HIV-infected or AIDS patients, and others seeking knowledge for personal assurance against infection. (Students previously enrolled in BMS 497 under the Understanding AIDS special topic will not receive credit for BMS 460.)

**BMS 467 Anatomy and Mechanics of Human Motion.** 3(3-0) F.

Prerequisite: BMS 308 or permission of department head. Biological analysis of normal articulation and body segment motions, emphasizing neuromuscular control. Biomechanical fundamentals and principles that relate to anatomy of human motion.

**BMS 494 Senior Seminar in Cell and Molecular Biology.** 1(1-0) F,S.

Prerequisite: Cell and Molecular Biology major and BMS 521; and 90 hours or permission. Discussion of emerging topics and issues in the fields of cell and molecular biology. Opportunity for students to gain skill in oral and written scientific communication, and explore and prepare for employment opportunities, graduate school, and professional programs. Completion of a subject assessment examination and seminar attendance is required. Graded Pass/Not Pass only.

**BMS 495 Introduction to Research in Dietetics.** 1(0-2) F,S.

Prerequisite: completion of 90 hours of coursework, including BMS 335, BMS 432, and statistics; or permission of instructor. Fundamentals of research in nutrition including research design, methodology, data collection and analysis, and presentation. Grant writing and funding process for research. Class discussions to include critiques of published research. Class projects to include research proposal/project and presentation.

**BMS 497 (400) Topics in Biomedical Sciences I.** 1-3, F,S.

Prerequisite: permission of department head. Selected topics which will vary from semester to semester. Course may be repeated to a maximum of 6 hours by a student provided topics are different. Variable Credit, Variable Content Course. Course fee for selected sections.

**BMS 498 Undergraduate Research.** 1-3, F,S.

Prerequisite: permission of instructor. Individualized and directed research. May be repeated to a maximum of 8 hours.

**BMS 499 Projects in the Biomedical Sciences.** 1-3, F,S.

Prerequisite: permission of instructor. Supervised experience in an area of the Biomedical Sciences. Course may be taken by students majoring or minoring in an area of the biomedical sciences.

**BMS 500 Special Topics in Biomedical Sciences II.** 1-4, D.

Prerequisite: permission of department head. Selected topics of an advanced nature which will vary from semester to semester. May be repeated by a student for a maximum of 8 hours of credit provided topics are different.

**BMS 514 Scanning Electron Microscopy.** 2(1-2) F.

Prerequisite: 60 credit hours or permission of instructor. An introduction to microsurface analysis using scanning electron microscopy and X-ray microanalysis. Theoretical considerations and laboratory procedures involve both techniques but the major emphasis will be on generation of secondary electron images. Some attention is devoted to backscattered electron imaging, X-ray mapping, stereo pair imaging, and related image processing techniques.

**BMS 516 Transmission Electron Microscopy.** 4(2-4) S.

Prerequisite: 20 credit hours in BMS or BIO. Demonstration of basic transmission electron microscopy techniques and microscope use. Emphasis is on ultrathin sectioning techniques; additional techniques include support film preparation, negative staining, immunogold localization procedures, and digital processing of photographic prints and negatives.

**BMS 520 Medical Cell Biology.** 3(3-0) F,S.

Prerequisite: admission to the MS in Nurse Anesthesia program or permission of instructor. Focus on the molecular aspects of cell biology for students in the Nurse Anesthesia program. Content identical to the lecture part of BMS 521. Cannot receive credit for both BMS 520 and 521.

**BMS 521 Molecular Cell Biology.** 4(3-3) F,S.

Prerequisite: C grade or better in BMS 321; CHM 200 or CHM 310 or permission of instructor. Origins, structure and function of cells and basic life processes from a molecular perspective. Major topics focus on the energy, chemical, and information exchanges within and among cells and their environment. Cannot receive credit for both BMS 520 and 521.

**BMS 524 Virology.** 3(2-2) S.

Prerequisite: C grade or better in BIO 310 or BMS 521. The molecular biology and pathogenicity of animal viruses; basic techniques of tissue culture and virology will be performed in the laboratory.

**BMS 525 (358) Molecular Biology.** 4(3-3) F,S.

Prerequisite: C grade or better in BMS 521. In-depth examination of nucleic acid structure, function, regulation, repair, and mutagenesis;

principles of genetic engineering. Laboratory provides experience in the techniques used to isolate, separate, quantitate, characterize, and modify nucleic acids. The course also includes an introduction to the GenBank and EMBL nucleic acid and protein sequence databases.

**BMS 528 Molecular Mechanisms of Bacterial Pathogenesis.** 2(2-0) S.

Prerequisite: BMS 525 or permission of instructor. An in-depth study of the methods of genetic control and production of pathogenic factors employed by disease causing bacteria. The course will use both reference material and primary literature to illustrate the topics under discussion.

**BMS 529 (519) Molecular Genetics.** 3(2-2) F.

Prerequisite: C grade or better in BMS 525. Recent advances in the molecular aspects of genetics; mammalian DNA will be characterized and manipulated using modern molecular techniques.

**BMS 530 Cell Biology of Cancer.** 2(2-0) S.

Prerequisite: C grade or better in BMS 321 or BIO 310 or BIO 320. Discussion of the initiation, cellular and genetic events which lead to cancer as well as its prevention, treatment, and personal consequences. An extensive paper and presentation are required.

**BMS 535 (621) Signal Transduction.** 2(2-0) D.

Prerequisite: BMS 521 or permission of instructor. This course will examine the molecular mechanisms of various ligand/receptor interactions. The dynamics involved in ligand/receptor binding will be studied and examples of receptor-mediated signal transduction will be introduced. Signaling pathways within the cell will be discussed. Primary literature and reference materials will be utilized to illustrate specific examples under discourse.

**BMS 540 Biotechnology.** 2(2-0) S.

Prerequisite: C grade or better in BMS 321. The applications of the methodologies of cell and molecular biology in the rapidly-evolving biotechnology and biopharmaceutical industries with an emphasis on the major sectors involving human therapeutics, human diagnostics, and genomics. Cell and molecular biology technologies adapted to mass production techniques to produce the products of biotechnology are surveyed. Typical pathways of product development from original basic research, product inception, clinical trials, regulatory approval, and commercialization are covered. Students will examine the current programs of the research and development of selected biotechnology and big pharma corporations.

**BMS 558 Recombinant DNA Techniques.** 3(1-4) F,S.

Prerequisite: C grade or better in BMS 525. Basic principles and techniques of gene cloning using major types of cloning vectors.

**BMS 561 Medical and Pathologic Physiology.** 4(4-0) F,S.

Prerequisite: BMS 308. A study of physiological dysfunction in human disease with consideration of disease etiology, diagnosis, clinical interpretation, and treatment. Designed for students and professionals in the health sciences.

**BMS 562 Medical and Pathologic Physiology Laboratory.** 1(0-2) F,S.

Prerequisite: BMS 561 or concurrent enrollment. Experience using laboratory techniques and case studies to enhance knowledge of pathophysiology.

**BMS 563 Advanced Work Physiology.** 3(3-0) S.

Prerequisite: "C" grade or better in BMS 567 or PED 362 or permission of instructor. Review of cellular metabolism, energy transfer, and oxygen transport during work; excitation-contraction coupling in skeletal muscle; physiological mechanisms of fatigue; neuroendocrine regulation of metabolism and other responses to work; environmental factors in work performance. Emphasis on molecular and cellular mechanisms and contemporary research.

**BMS 564 Molecular Endocrinology and Reproductive Physiology.** 3(3-0) D.

Prerequisite: BMS 308 and either BMS 321 or CHM 350. A detailed examination of the physiological, cellular and molecular aspects of human reproduction with particular emphasis on the endocrine aspects of reproduction.

**BMS 565 Human Cardiopulmonary Physiology.** 3(3-0) F,S.

Prerequisite: BMS 308 and either BMS 321 or CHM 350. A cellular and molecular study of human cardiovascular and respiratory physiology and related human diseases. Emphasis will be on the molecular mechanisms for normal and abnormal functions of the blood, the blood vessels, the heart, the respiratory tract, and the lung. Current research topics and results will be introduced and discussed.

**BMS 567 (363) Physiology of Exercise Metabolism.** 4(3-2) F,S.

Prerequisite: "C" grade or better in BMS 240 and "C" grade or better in BMS 308. Introduction to the study of human metabolic and work physiology. Digestion, absorption, and metabolism of biologically important nutrients as they affect cellular energy transfer; mechanisms of energy transfer in cells during various forms of work; oxygen transport and utilization at the cellular and system level; factors modifying the efficiency of human work performance. May not be taken Pass/Not Pass.

**BMS 568 Physiology of the Human Gastrointestinal and Urinary Systems.** 3(3-0) D.

Prerequisite: BMS 308 and either BMS 321 or CHM 350. Structure and function of the gastrointestinal and urinary systems including pathophysiology of common clinical conditions.

**BMS 569 Neurobiology.** 3(3-0) S.

Prerequisite: C grade or better in BMS 308. Study of the mammalian nervous system including anatomy and principles of function.

**BMS 570 Principles of Pharmacology.** 3(3-0) F,S.

Prerequisite: BMS 308. Principles of pharmacology, including pharmacokinetics and pharmacodynamics of major drug classifications, and the application of pharmacology to the biomedical sciences.

**BMS 582 (382) Embryology.** 4(2-4) S.

Prerequisite: BMS 110 or BIO 121; and either BMS 307 or BIO 380. A study of anatomical changes during early animal development with emphasis on vertebrates. Lecture emphasis is on the cellular and subcellular mechanisms that may explain normal development, especially with regard to fertilization and morphogenesis. Laboratory emphasis on the normal development of live and preserved vertebrate embryos. Meets the embryology requirements for students in pre-professional medical, dental, and allied health curricula, as well as any student requiring a background in embryology.

**BMS 584 Molecular Mechanisms in Animal Development.** 3(3-0) S.

Prerequisite: BMS 521 or BIO 320. An overview of the relationship between the anatomy of developing embryos and fundamental molecular mechanisms that generate this morphology, with an emphasis on vertebrates. Some invertebrate systems will be presented. Selected topics will include cell signaling during fertilization, gene activity in early development, cytoskeleton dynamics during morphogenesis, cell-cell adhesion, master pattern genes, and regulated cell death.

**BMS 585 Histology.** 4(2-4) F.

Prerequisite: BMS 307 or BIO 380. Microscopic structure of cells, tissues, and organ systems, with special emphasis on human tissues. Extensive laboratory experience with interpretation of structures in stained tissues mounted on microslides. Recommended for students in medical, dental, optometric, and other preprofessional curricula, medical technology, cell and molecular biology, and zoology.

**BMS 593 Bioinformatics and Biomedical Resources.** 2(2-0) F,S.

Use of biomedical source materials and methods of data access, selection, organization, and evaluation.

*The following courses are open only to graduate students.*

**BMS 600 Introduction to Graduate Studies in the Biomedical Sciences.** 3(3-0) F,S.

Study of the researcher role, the research process, and research ethics relating to the biomedical sciences.

**BMS 601 Research in the Biomedical Sciences.** 3(3-0) F,S.

Prerequisite: statistics or concurrent enrollment. Focus on research skills, scientific writing, and professional development.

**BMS 607 (507) Medical Human Anatomy.** 6(3-10) F. (Identical with PTE 607)

Prerequisite: admission to the MPT program or permission of department head. This course offers an in-depth coverage of basic, applied, and clinical aspects of gross anatomy. Students observe, discuss, teach, learn, and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students in laboratory teaching sessions, and assignments that rely on critical thinking. Students make oral presentations and use the library and other sources of information (such as the internet and our Computer Laboratory) to learn and teach applied gross anatomy. May be taught concurrently with PTE 607.

**BMS 611 Microbial Genetics.** 2(1-2) S.

Prerequisite: BMS 321 or BIO 310. Course is designed to investigate various aspects of microbial genetics using advanced laboratory techniques. Experiments may include DNA and plasmid isolation and characterization, mutagenesis, transformation, transduction and conjugation of bacteria.

**BMS 617 Medical Human Anatomy and Radiology.** 6(3-11) S. (Identical with PAS 617)

Prerequisite: admission to the PAS program or permission of department head. Regional study of the human body. Course will include lecture and laboratory activities including cadaver dissection, study of anatomic models, computer images, x-ray, CAT scan and MRI, and ultrasound imaging.

**BMS 626 Advanced Topics in Cell and Molecular Biology.** 1-4 F,S. Focused or detailed consideration of advanced or timely topics in cell and molecular biology. May involve group discussion from another institution or represent individual study. Credit for BMS 626 may be given for electronic and distance learning courses available via the Internet with the approval of the cell and molecular biology faculty who will determine the credit hours and topic title. Variable Content Course. May be repeated up to 6 hours when topic varies.

**BMS 627 Human Gross Anatomy.** 2(1-3) F.

Prerequisite: admission to the MS in Nurse Anesthesia program or permission of instructor. In-depth study of the gross anatomy of the human body in areas of interest relating to administration of anesthesia.

**BMS 630 Current Literature Topics.** 1(1-0) F,S.

A weekly forum of faculty and graduate students to discuss reports in the current literature from cell, molecular, and developmental biology. Participants are assigned to report on developments in their specialty or area of interest and provide background for understanding the basis and significance of the report to others in the group. May be repeated. Required each regular semester for full time students.

**BMS 632 Clinical Preventive Medicine.** 3(3-0) S.

Prerequisite: permission of department head. A review of current scientific evidence regarding effective screening tests and interventions to improve health status.

**BMS 652 Medical Physiology.** 3(3-0) S.

Prerequisite: admission to the PAS or the MPT program, or permission of department head. The study of biological function of the human organism. Emphasis will be placed on mechanisms and regulation using examples focusing on the field of medicine. Topics covered will include general cell function, neural, endocrine, cardiovascular, respiratory, gastrointestinal and renal physiology and regulation of acid-base balance. The course stresses the interrelated functions of the body systems in homeostasis and builds on this knowledge to introduce how disease alters the homeostatic controls.

**BMS 684 Developmental Genetics.** 2(2-0) D.

Prerequisite: BMS 525. A study of developmental gene families, their expressions as related to the normal and abnormal development of form and structure, and their intrinsic and extrinsic regulation in various animal model systems, including humans. Specific gene-programmed and gene regulated mechanisms such as those regulating pattern formation, triggering cell differentiation, initiating regeneration (as it applies

to specific tissues and organs), controlling apoptosis, and determining rates of cellular and organismal aging are included.

**BMS 685 Histology and Tissue Biology.** 2(1-2) S. (Identical with PTE 685)

Prerequisite: admission to the MPT program or admission to the MS in Nurse Anesthesia program. This course emphasizes the structure and basic function of all the major tissues and cell types in the human body. It includes normal cell and tissue morphology and the adaptations that occur as a result of various stimuli both normal and abnormal.

**BMS 697 Non-thesis Project.** 2, F,S.

Prerequisite: permission of instructor. In-depth study in an area of interest, culminating in a presentation of an extensive scholarly paper. Graded Pass/Not Pass Only.

**BMS 698 Research.** 1-6, F,S.

Prerequisite: permission of instructor. Application of the research process in the supervised study of a selected problem. May be repeated for a maximum of 6 hours. Graded Pass/Not Pass only.

**BMS 699 Thesis.** 1-6, F,S.

Prerequisite: permission of instructor. Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated for a maximum of 6 hours. Graded Pass/Not Pass only.

## Medical Technology Courses

*These courses are not open to regular Missouri State students. They are offered at a School of Clinical Laboratory Sciences-Medical Technology only for those students who have been admitted to such a school.*

**MTC 401 Clinical Chemistry.** (10-12 hours).

Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents, utilizing both manual and instrumental techniques including automation and special procedures.

**MTC 402 Clinical Microscopy-Urinalysis.** (1-3 hours).

Principles and techniques of the physical, chemical and microscopic examination of urine and other excreta as related to disease processes.

**MTC 403 Hematology-Coagulation.** (4-6 hours).

A study of the cellular element of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders.

**MTC 404 Serology-Immunology.** (3-4 hours).

The science of immunity including antibody development, principles of antigen-antibody interactions, and techniques of serological testing for various disease states.

**MTC 405 Clinical Microbiology.** (7 hours).

Sterile technique, methods of handling and inoculating specimens containing pathogenic microorganisms, isolation and identification of pathogenic microorganisms, laboratory test in chemotherapy, and diagnostic bacteriology, mycology, and parasitology.

**MTC 406 Blood Bank-Immunoematology.** (3-5 hours).

A study of blood group systems and the immune response. Methods of cross-matching, antibody screening, and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components.

**MTC 407 Special Topics in Medical Technology-Education and Management.** (2 hours).

Instruction will include lecture and/or clinical practice in the areas of In-Service Education, Management and Supervision, Research and Development, and Principles and Techniques of the Instructional Process.

## Department of Communication Sciences and Disorders

237 Professional Building, Phone: 836-5368, FAX: 836-4242

Email: [CommunicationSciencesandDisorders@missouristate.edu](mailto:CommunicationSciencesandDisorders@missouristate.edu)

Department Web Site: [www.missouristate.edu/csd](http://www.missouristate.edu/csd)

**Department Head:** Professor Neil J. DiSarno, Ph.D.

**Professors:** Julie J. Masterson, Ph.D.; Harold W. Meyers, Ph.D.; Ronald W. Netsell, Ph.D.; Ann Powers, Ed.D.

**Associate Professors:** Klaas Bakker, Ph.D.; Thomas C. Franklin, Ph.D.; Lisa Wood, Ph.D.

**Assistant Professor:** Lynette Goldberg, Ph.D.; Wafaa A. Kaf, Ph.D.; Cynthia A. McCormick, Ph.D.; Letitia Walker, Ph.D.

**Instructor:** Jason L. Box, Au.D.; Rose M. White, Au.D.

**Laboratory Supervisors:** Karen Adams, M.A.; Allison Crocker, M.S.; Deborah Cron, M.Ed.; Karen Engler, M.A.; Tara Oetting, M.S.; Patricia Pike, M.A.

**Clinical Director:** Mary Jill Oswalt, M.A.

**Emeritus Professors:** Herbert J. Arkebauer, Ph.D.; Laurabeth W. Windham, M.A.

**Accreditation:** American Speech-Language-Hearing Association (ASHA) – Communication Sciences and Disorders options in Speech-Language Pathology, M.S., and Audiology, Au.D.; Council on Education of the Deaf (CED) – Communication Sciences and Disorders option in Education of Deaf and Hard of Hearing, M.S.

### The Speech-Language-Hearing Clinic

The Clinic provides diagnostic evaluations and therapy for persons with speech, language and hearing disabilities. A program for pre-school aged deaf/hard of hearing children is offered. Certified/licensed personnel supervise student therapy and learning activities.

## Major

### Admission Requirements

Admission to the Bachelor of Science degree program in the Department of Communication Sciences and Disorders will be granted to students, including transfer students, when the requirements indicated below have been met.

- A. Attainment of at least a 2.50 grade point average (based on a 4.0 scale) on all coursework attempted at Missouri State. For those students with transfer credit, a combined grade point average of at least a 2.50 must be achieved for all coursework being transferred plus all coursework attempted at Missouri State.
- B. The completion of a minimum of 50 semester hours including the following courses with a grade of "C" or higher in each CSD course\*:
  1. Four hours of Biological Science
  2. Four hours of Physical Science
  3. Three hours of Mathematics (comparable to MTH 135)
  4. Three hours of Psychology (comparable to PSY 121)
  5. Three hours of the General Education Culture and Society Area of Inquiry
  6. Six hours of the General Education Self-Understanding Area of Inquiry
  7. Linguistics (comparable to ENG 296)
  8. Phonetics (comparable to CSD 210)

\*Please check with your advisor concerning any options for any of the above courses.

### C. Special Procedures

After completing 30 semester hours, students indicating CSD as a major are notified to prepare a degree program. The preparation of the degree program establishes the admission requirements and graduation requirements which must eventually be met within a given specialization. The degree program is not finalized until all admission requirements have been met.

## Communication Sciences and Disorders (Comprehensive) Bachelor of Science

- A. General Education (see General Education section of catalog)
- B. Major Requirements
  1. Core: ENG 296(3), CSD 210(3), 216(3), 312(3), 360(3), 362(3), 370(3), 495(2), 496(2), 572(3)

### 2. Area of Concentration (select one):

- a. **Audiology:** CSD 260(3), 315(3), 316(3), 482(3), 484(3), 570(3)
- b. **Education of Deaf and Hard of Hearing:** CSD 260(3), 321(3), 322(3), 562(3); SPE 345(3), 346(2)
- c. **Speech-Language Pathology:** CSD 315(3), 316(3), 321(3), 400(3), 482(3), 484(3), 580(3)

### C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

**NOTE:** CSD majors may not take any CSD course on a Pass/Not Pass basis.

### Certification Requirements – Deaf and Hard of Hearing Emphasis

Contact your advisor or the Department Head for the requirements and coursework necessary to meet state and national certification requirements.

Education of Deaf and Hard of Hearing students must take certain coursework through the Teacher Education Program and are required to collect and assemble materials for completion of a teaching portfolio.

In order to be recommended for state certification, each student must:

- A. Be admitted to the Teacher Education Program - see "Academic Programs and Requirements" section of catalog
- B. Successfully complete all Practicum requirements with a grade of "B" or better.
- C. Successfully complete the graduate degree in Communication Sciences and Disorders in the Deaf and Hard of Hearing emphasis.
- D. Successfully complete the state approved exit assessment.
- E. Complete all state certification requirements in effect at the time a recommendation is made.

## Minor

There is an opportunity for a personalized minor in Communication Sciences and Disorders. Contact the Department Head or Department Academic Advisor for further information.

## Graduate Program

The Master of Science degree offers a major in Communication Sciences and Disorders. Areas of concentration are: Audiology, Education of the Deaf and Hard of Hearing, and Speech-Language Pathology. A Doctor of Audiology and a Masters to Doctor of Audiology completion program are also offered. See the Graduate Catalog for details.

## Communication Sciences and Disorders Courses

**CSD 201 Introduction to Communication Disorders.** 3(3-0) F.S. Provides a general understanding of normal and deviant speech, language and hearing in adults and children. Considers the normal development of communication behavior, and the nature of communication disorders.

**CSD 209 Basics of Linguistics for the Communication Sciences.** 2(2-0) F,S.

General coverage of linguistic theories, relationships between cognitive and linguistic abilities, and cultural influences upon language. Also definition of the specific components of language (phonology, syntax-morphology, semantics, and pragmatics), with emphasis on procedures for description and analysis commonly used in the communication sciences.

**CSD 210 Phonetics.** 3(2-2) F,S.

Instructional and laboratory application of international phonetic alphabet in transcribing normal/disordered American English.

**CSD 216 Anatomy and Physiology of Speech.** 3(3-0) F.

Particular structure and functions of human anatomy related to the processes of speech.

**CSD 260 (560) Survey of Interests in Deaf and Hard of Hearing.** 3(3-0) F.

A survey course on the effects of hearing impairments as they relate to development, learning, education, and social interaction across the lifespan. Resources and agencies that assist persons who are deaf and hard of hearing at the local, state, and national levels will be discussed.

**CSD 312 Normal Language Acquisition.** 3(3-0) F,S,Su.

Theories and sequence of normal language development, emphasizing phonological, morphological, syntactic, semantic, and pragmatic abilities. Emphasis on first six years.

**CSD 315 Speech and Language Disorders in Children.** 3(3-0) S.

Prerequisite: CSD 216 and CSD 312. Nature, evaluation and treatment of speech and language disorders in children. Study of current theories and recent experimental work.

**CSD 316 Speech and Language Disorders in Adults.** 3(3-0) S.

Prerequisite: CSD 216 and CSD 312. Nature, evaluation and treatment of speech and language disorders in adults. Study of current theories and recent experimental work.

**CSD 321 (461) Sign Language I.** 3(3-0) F.

Prerequisite: permission. Gain beginner level skill in sign language and fingerspelling through Manually Coded English. Development of a general knowledge base including the history of sign language and the spectrum of sign options available. May be taught concurrently with CSD 721. Cannot receive credit for both CSD 321 and CSD 721.

**CSD 322 (462) Sign Language II.** 3(3-0) S.

Prerequisite: CSD 321 and permission. Emphasis on the expansion of Manually Coded English sign language skills through the use of conversation and the increased development of vocabulary. May be taught concurrently with CSD 722. Cannot receive credit for both CSD 322 and CSD 722.

**CSD 330 Introduction to American Sign Language (ASL).** 3(3-0) F.

Prerequisite: permission of instructor. A beginning level course in American Sign Language. Students will gain information about the history and structure of this unique visual/gestural system of communication, its vocabulary and syntax, and practical experience in its use, both expressively and receptively.

**CSD 360 Hearing Science.** 3(3-0) F.

Elementary acoustical theory and application to the study of speech production, reception and perception; emphasis on anatomy of auditory system, decibel notation and traditional psychophysical methods.

**CSD 362 Speech Science.** 3(3-0) S.

Prerequisite: CSD 216. Analysis of research on the acoustic parameters, the perceptual and productive processes of normal speech.

**CSD 370 Audiology.** 3(3-0) S.

Prerequisite: CSD 360. Principles of hearing measurement: test methods, screening methods, test interpretation.

**CSD 400 Introduction to Research in Communication Sciences and Disorders.** 3(3-0) F.

An introduction to the philosophy and methods of research, critical reading of the literature, and scientific writing in communication sciences and disorders. Contains prerequisite knowledge needed for the graduate course in research that is required of all majors. There are no prerequisites for this course.

**CSD 482 Introduction to Clinical Methods.** 3(3-0) S.

A study of assessment and treatment principles, methods and procedures relating to speech, language and hearing disorders.

**CSD 484 Introduction to Practice Settings on Communication Sciences and Disorders.** 3(3-0) F.

A course focusing on the varied settings in which audiologists and speech-language pathologists work. Seniors majoring in audiology or speech-language pathology who complete this course may accrue up to 8 hours of the ASHA-required 25 hours of observation in their field of study. There are no prerequisites for this course.

**CSD 492 Issues in Communication Sciences and Disorders.** 1-3, F,S.

Prerequisite: permission of department head. Supervised independent study exploring in-depth selected areas. Selected readings, controlled by conferences, progress reports and term paper. May be repeated to a total of 6 hours.

**CSD 495 Observation Clinical Practicum I.** 2(1-2) F.

Prerequisite: permission. Students will make observations and complete assignments relating to service delivery in their respective disciplines. A minimum of 12 hours will be direct observation. Course content will emphasize assessment practices, professional code of ethics, skills in reflective decision-making, and technical writing.

**CSD 496 Observation Clinical Practicum II.** 2(1-2) S.

Prerequisite: permission. Students will make observations and complete assignments relating to service delivery in their respective disciplines. A minimum of 13 hours will be direct observation and/or participation. Emphasis will be on professional competencies, technical writing, and implementation of discipline-specific practices. May be repeated to total of 4 hours.

**CSD 562 Psycho-Social Implications of Being Deaf or Hard of Hearing.** 3(3-0) S.

Prerequisite: permission. Characteristics and problems of persons who are D/HH as they affect interaction with general society. Emphasis on interpersonal relationships through the lifespan.

**CSD 570 Basic Audiometry.** 3(3-0) F.

Prerequisite: CSD 360 and CSD 370. This course describes aspects of basic diagnostic testing in clinical audiology. Students learn about basic diagnostic test procedures including air-conduction and bone-conduction threshold testing, speech audiometric test procedures and clinical masking procedures.

**CSD 572 Aural Rehabilitation.** 3(3-0) S.

Prerequisite: CSD 360. Principles of habilitation/rehabilitation of communication disorders related to hearing impairment.

**CSD 580 (680) Technical Solutions in Communication Disorders.** 3(3-0) F.

Review and demonstration of current hard- and software systems for the evaluation, treatment, and research of communication disorders.

***The following courses are open only to graduate students.*****CSD 600 Research Methods in Communication Disorders.** 2(2-0) Su.

Prerequisite: permission of advisor. Nature of research methodology, experimental design, and scientific writing. An opportunity to explore research literature and prepare to conduct research pertaining to speech, language and hearing functions.

**CSD 601 Research: Deaf and Hard of Hearing.** 1(1-0) Su.

Prerequisite: permission of instructor. Foundation for research study in the education of individuals who are deaf and hard of hearing. Emphasis will be placed on evaluation of research and professional writing as it pertains to education of individuals who are deaf and hard of hearing.

**CSD 610 Developmental Psycholinguistics.** 3(3-0) F.

Prerequisite: permission. Presentation of current theories associated with psycholinguistic development. Focus will be on auditory perception, individual differences, cognitive hypotheses, and stage transition.

**CSD 612 Child Language I.** 3(3-0) F.

Prerequisite: permission of advisor. Issues related to the area of language development and disorders in children age birth to five will be

presented. The course will focus on best practices for the assessment and treatment of children age birth to five with language disorders.

**CSD 613 Child Language II.** 3(3-0) S.

Prerequisite: permission of advisor. Current issues within the area of oral and written language development and disorders in school-age children and adolescents will be discussed. Methods for critically evaluating research and applying this research to clinical practice with children and adolescents with language disorders will be covered. Focus of course is on optimal methods for assessment and treatment of language disorders in children and adolescents.

**CSD 614 Language Disorders: Rehabilitation.** 3(3-0). D

Prerequisite: permission. Diagnostic and therapeutic strategies for language disorders in adults associated with auditory discrimination, perception, short and long-term memory, semantic and syntactical concept formation, and retrieval of auditory information.

**CSD 615 Infants and Toddlers: Communication Assessment and Treatment.** 2(2-0) Su.

Prerequisite: permission. Issues regarding communication assessment and intervention for infants and toddlers will be discussed. Course content will include a study of at-risk factors and established risks for developmental disabilities. Service delivery models for the assessment and treatment of communication disorders for infants and toddlers will be presented. Play-based assessment and intervention strategies will be included in course content.

**CSD 616 Craniofacial Anomalies.** 3(3-0) F.

Prerequisite: permission. The study of communication and associated problems related to congenital and acquired craniofacial anomalies. Emphasis on interdisciplinary procedures relative to amelioration of communication deficits manifest in these anomalies.

**CSD 618 Fluency Disorders.** 2(2-0) F,Su.

Prerequisite: permission of advisor. Theoretical, clinical, and experimental approaches to the study and treatment of fluency disorders.

**CSD 620 Voice Disorders.** 2(2-0) F,Su.

Prerequisite: permission of advisor. The study of the human voice and its disorders. Emphasis on 1) evaluation and treatment of neurogenic, psychogenic, and ideopathic voice disorders, and 2) respiratory, laryngeal and velopharyngeal dysfunction.

**CSD 622 (522) Neural Bases of Human Communication.** 3(3-0) F. Study of the nervous system and its role in normal and abnormal speech and language processing.

**CSD 624 Aphasia and Related Disorders.** 3(3-0) F or S.

Emphasis on language impairment as a result of brain dysfunction. A theoretical and clinical analysis of the neurolinguistic basis for describing, diagnosing and remediating disorders of language such as aphasia, language of dementia, and that following traumatic head injury.

**CSD 625 Motor Speech Disorders.** 3(3-0) F or S.

Prerequisite: permission. Study of neurogenic speech disorders. Emphasis on the evaluation and treatment of (1) the dysarthrias and dyspraxias, and (2) underlying neurologic and vocal tract dysfunction.

**CSD 626 Diagnostics: Speech and Language Assessment.** 3(2-2) D.

Prerequisite: permission. Principles and procedures for tests of language and speech dysfunctions. Interpretation of diagnostic findings leading to clinical decision-making, rehabilitative planning and reporting. Students obtain clinical experience in diagnostic procedures at the University Speech and Hearing Clinic.

**CSD 628 Advanced Study of Phonological (Speech Sound) Disorders in Children.** 3(3-0) F.

Prerequisite: permission. Discussion of processes involved in phonological production and how breakdowns in these processes lead to specific disorders. Methods for critically evaluating research and applying this research to the study of phonological disorders will be covered. Focus of course is on optimal methods for assessment and treatment of phonological disorders in children.

**CSD 630 Introduction to Augmentative and Alternative Communication.** 2(2-0) S,Su.

Prerequisite: permission of advisor or instructor. This course will cover the basic components of AAC as well as assessment and intervention strategies. In addition, the operation, evaluation, and application of the

technology associated with AAC will be presented. AAC assessment and intervention will be discussed in regards to the following populations: children and adults with developmental disabilities and individuals with acquired disabilities.

**CSD 632 Speech and Language Assessment and Treatment for Special Populations.** 2(2-0) Su.

Prerequisite: permission. This course will provide information on the speech and language disabilities associated with children with special needs. Target populations will include children with cognitive disabilities, children with dual sensory disabilities, children with autism, and children with physical disabilities. Communication development, assessment, and intervention for each of these populations will be addressed.

**CSD 640 Dysphagia.** 3(3-0) F.

Prerequisite: permission. Comprehensive study of normal and disordered swallowing. Special emphasis will be placed on the evaluation and treatment of disordered swallowing processes.

**CSD 642 Speech-Language Services in Medical Settings.** 2(2-0) Su.

Prerequisite: permission. This course is designed to provide a guide to the concepts, policies, and procedures encountered in the medical setting. It is hoped that at the end of this course, students will feel more comfortable entering the medical setting in various practicum settings that are required in our graduate program.

**CSD 650 Pediatric Audiology.** 3(3-0) F.

Prerequisite: permission of instructor. Overview of auditory development. Presentation of auditory disorders, audiological assessment, and treatment needs specific to infants and children. Emphasis on parent-child interactions and family dynamics in habilitating hearing-impaired children. Relevant calibration and instrumentation issues.

**CSD 652 Advanced Hearing Science.** 4(4-0) F.

Prerequisite: permission. Physics of sound, an introduction to psychoacoustics, and anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered.

**CSD 658 Early Intervention: Deaf and Hard of Hearing.** 3(3-0) Su.

Prerequisite: permission of instructor. Methods and techniques for working with families as well as in the educational environment of infants and children who are deaf or hard of hearing from birth through the beginning elementary school years. Emphasis on methods and procedures for assessment and intervention.

**CSD 660 Language Development: Deaf and Hard of Hearing I.** 3(3-0) F.

Prerequisite: permission of the instructor. Theories and research into language development in individuals with hearing and those with losses of hearing are explored with implications for assessment and intervention. Problems and issues related to language development are presented for reflection and discussion.

**CSD 661 Language Development: Deaf and Hard of Hearing II.** 3(3-0) S.

Prerequisite: CSD 660 or the equivalent. Methods, strategies, and techniques of language development that may be applied in assessing and instructing students with hearing losses.

**CSD 662 Speech Development: Deaf and Hard of Hearing I.** 3(3-0) F.

Prerequisite: CSD 660 and permission. Theories of speech development as they apply to persons who are deaf or hard of hearing. Techniques for analyzing speech will be stressed. Two semester sequence, CSD 663 to follow.

**CSD 663 Speech Development: Deaf and Hard of Hearing II.** 3(3-0) S.

Prerequisite: CSD 662 and permission. Application of information learned in CSD 662 is emphasized. Students collaborate with Speech-Language Pathology students assigned to clients who are D/HH. Assessment, planning, intervention, and record keeping are the focus of course activity. Regular interaction with family members of clients is also incorporated into the course schedule.

**CSD 664 Instructional Strategies: Deaf and Hard of Hearing.** 3(3-0) F.

Prerequisite: permission of instructor. Formal and informal assessment, the concept of curriculum, instructional placement and program-



ming for students who are deaf or hard of hearing from the upper elementary through the secondary school levels. Development of instructional strategies with an emphasis on individualized instruction.

**CSD 665 Reading: Deaf and Hard of Hearing.** 3(3-0) S.

Prerequisite: permission. Theories of reading with an emphasis on adaptations for assessment and intervention for students who are deaf or hard of hearing. Introduction to available resources.

**CSD 666 Counseling: Deaf and Hard of Hearing.** 3(3-0) Su.

Prerequisite: permission of instructor. Theoretical bases of counseling and the role of the educator in the counseling process. Emphasis on the counseling process as it affects the educational, personal, social, and familial adjustment of individuals who are deaf or hard of hearing.

**CSD 667 Amplification Systems in the Educational Setting.** 3(3-0) F.

Prerequisite: permission of instructor. The different types of amplification and assistive listening devices used in classrooms will be discussed in detail. Students will be able to discuss issues of acoustics and amplification devices in educational settings. They will learn vocabulary needed for communication with other professionals, and they will obtain hands-on experience with hearing aids and assistive devices found in classrooms.

**CSD 668 Amplification Systems I.** 3(2-2) S.

Prerequisite: CSD 572 and permission. Current concepts in amplification and assistive listening devices. Evaluation, selection, and fitting of prosthetic devices for the hearing impaired. Relevant calibration and instrumentation issues.

**CSD 670 Clinical Audiology II.** 4(3-2) S.

Prerequisite: CSD 570 and permission. Theory and practice of electrophysiological testing for the auditory and vestibular systems. Relevant calibration and instrumentation issues.

**CSD 672 Advanced Amplification Systems.** 3(3-0) F.

Prerequisite: CSD 650 and permission. Coverage of recent developments in remediation of communication disorders related to hearing loss in adults and children.

**CSD 674 Clinical Audiology III.** 3(3-0) D.

Prerequisite: CSD 570 and permission. Discussion of recent advances in audiology and hearing science research which have potential clinical application.

**CSD 675 Medical Audiology.** 3(3-0) Su.

Prerequisite: CSD 670 (or concurrent with CSD 670) and permission of instructor. Detailed analysis of the etiology and assessment of common pathologies of the auditory system. Medical intervention and audiologic test battery interpretation discussed.

**CSD 676 Industrial Audiology.** 3(2-2) D.

Prerequisite: CSD 570 and permission. Theory and practice of noise assessment, including the effects of noise on man, and the development of hearing conservation measures. Includes the use of instrumentation for sound measurement.

**CSD 682 Acoustic Phonetics.** 3(2-2) D.

Prerequisite: permission. Investigation of the acoustic characteristics of normal and pathological speech and voice production.

**CSD 683 Physiological Phonetics.** 3(2-2) D.

Prerequisite: permission. Analyses of the physiological features underlying voice, speech and language processes; theories of encoding, and encoding control mechanisms.

**CSD 684 Non-Thesis Project.** 1-2, F,S,Su.

Prerequisite: permission. In-depth study in an area of communication science and disorders, culminating in a presentation of an extensive scholarly paper. Must be repeated for a minimum of 3 credit hours; may be repeated to a maximum of 6 hours.

**CSD 688 Professional Issues I: Education Settings.** 3(3-0) F.

Prerequisite: permission of advisor. This class will be taught in conjunction with student's school practicum experiences and will focus on professional issues in school settings. Topics will include overview of service delivery systems, business aspects of service delivery, scope of

practice, quality assurance/assessment, legal and ethical responsibilities, professional organizations, and career development issues.

**CSD 689 Professional Issues II: Healthcare Settings.** 3(3-0) S.

Prerequisite: permission of advisor. This functionally-oriented course is designed to complement students' concurrent clinical externships in healthcare settings. Issues include, but are not limited to, in-depth discussion and analysis of relevant local, state and national policies and procedures for ethical and effective evidence-based service delivery; models of collaborative team assessment and treatment applicable to a variety of healthcare settings; and recognition of potential external influences that may impact treatment objectives and length of intervention.

**CSD 690 Workshop in Communication Disorders.** 1-6, D.

A concentration of work to improve the skill and knowledge in specific areas. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. Thirty clock hours equal 1 semester hour. May be repeated to a maximum of 6 hours credit.

**CSD 692 Independent Study.** 1-3 D.

Prerequisite: permission of advisor. May be taken to maximum of 4 hours. Study may be a reading project or a practical application of theories.

**CSD 694 Orientation to Clinic Speech Pathology.** 1(1-0) F,S,Su.

Prerequisite: permission of advisor. Preparation for practicum work in speech pathology. Clinic procedures, observation guidelines, documentation requirements, shadowing of practicing clinicians, development of integration of knowledge and skills in speech pathology.

**CSD 695 Advanced Clinical Practice.** 1-6, F,S,Su.

Prerequisite: permission of advisor. Training in audiology, speech and language disorders, and education of the deaf and hard of hearing in clinical, hospital, school, and/or other settings. May be repeated.

**CSD 696 Supervised Teaching.** 3-6, S.

Prerequisite: permission. The assumption of teaching responsibilities at an approved practicum site under the direction of a University CED certified supervisor and practicum site instructor. Students enrolled in this course may be required to have a physical examination, including a TB test before placement in the practicum setting.

**CSD 699 Master's Thesis.** 1-6 D.

Thesis research and writing.

*The following courses are open only to the students in the Doctor of Audiology program.*

**CSD 700 Research Methods in Audiology.** 3(3-0) S.

This course will outline the research process in audiology beginning from proposing a research question to drawing and disseminating conclusions. Special emphasis will be placed on conducting clinical research and evaluating published research findings in audiology.

**CSD 707 Auditory System: Physiology/Neurophysiology.** 3(3-0) D.

This course describes in depth aspects of the peripheral and central auditory system as it pertains to anatomy and physiology. Students learn about the functional development of the human auditory system as well as comparative anatomy. The peripheral anatomy will include external (pinna, canal, and tympanic membrane), middle (ossicular mechanism, eustachian tube, facial nerve) and cochlear structures (microanatomy, ultrastructures, sensory epithelium, cochlear fluids, vascular system). The central anatomy will include the cochlear nerve, neural transmission, afferent and efferent pathways (brainstem and midbrain) and cortical function.

**CSD 721 Sign Language I.** 3(3-0) F.

Prerequisite: permission. Gain beginner level skill in sign language and finger-spelling through Manually coded English. Develop a general knowledge base including the history of sign language and the spectrum of sign options available. May be taught concurrently with CSD 321. Cannot receive credit for both CSD 321 and CSD 721. Students will be required to complete a project in an area related to their professional course of study.

**CSD 722 Sign Language II.** 3(3-0) S.

Prerequisite: CSD 721, permission. Emphasis on the expansion of Manually Coded English sign language skills through the use of conversation and the increased development of vocabulary. May be taught



concurrently with CSD 322. Students cannot receive credit for both CSD 322 and CSD 722. Students will be required to complete a project in an area related to their professional course of study.

**CSD 734 Immittance, Site of Lesion and Pseudohypacusis.** 3(3-0) F.

A comprehensive study of a variety of site of lesion tests. The course will cover acoustic immittance and reflectance measures including tympanometry and acoustic reflex measures for detection of middle ear disorders and site of lesions in the auditory pathway. Other site of lesion tests include threshold and suprathreshold tone decay, loudness recruitment, loudness balance, Short Increment Sensitivity Index, Bekesy tests and brief tone audiometry. Tests for detection of nonorganic hearing loss will also be discussed.

**CSD 740 Speech Pathology for the Audiologist.** 3(3-0) D.

Prerequisite: permission. In-depth discussion of normal and disordered speech and language development, with emphasis on hearing loss and its effect on speech and language. Central auditory processing disorders, adult communication disorders, and proper evaluation and referral processes for speech and language also discussed.

**CSD 745 Central Auditory Processing Disorders.** 3(3-0) S.

Prerequisite: CSD 570 and CSD 652 and permission of advisor. This course describes various aspects of central auditory processing and disorders. Students learn about the underlying processes of auditory processing in the central nervous system. They are provided with a review of several evaluation and remediation approaches used in the management of individuals with central auditory disorders.

**CSD 770 Educational Audiology.** 3(3-0) D.

Prerequisite: permission of advisor. This course includes information and strategies students need to work in today's inclusive school environment, functioning as part of a collaborative team, helping develop IFSPs, IEPs and ITPs, supervising audiological screening and conservation programs. It will prepare students to perform the various roles of the educational audiologist, clinician, community liaison service coordinator, supervisor, and advocate. Issues that affect learners with hearing impairment across the lifespan (infant toddlers, elementary and high school students, and college and adult learners) and various regulations related to the delivery of effective educational services (e.g., ADA, IDEA) will be discussed. This course will also include information on the evaluation of, and referral process for, speech and language disorders related to hearing loss.

**CSD 835 Otoacoustic Emissions.** 3(3-0) F.

The different types of otoacoustic emissions will be discussed in detail. Students will learn to record, analyze and interpret otoacoustic emissions. They will learn screening and diagnostic applications of otoacoustic emissions in a variety of auditory pathologies.

**CSD 842 Vestibular Assessment and Rehabilitation.** 4(4-0) S.

Prerequisite: permission. An examination of the physiological aspects of the vestibular system, chemical effects on the vestibular system, medical and chemical treatment methods, balance system assessment, assessment of the efficacy of intervention, and anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered.

**CSD 844 Electrophysiology.** 4(4-0) S.

Prerequisite: permission. A look at various techniques and theories behind electrodiagnostic testing procedures. Advanced study of auditory evoked responses applied in audiology. Anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered.

**CSD 846 Instrumentation and Calibration.** 3(2-2) D.

Prerequisite: permission, CSD 570. Detailed investigation into instrumentation and calibration and its importance in the field of Audiology. Emphasis on bioelectrical hazards, physical characteristics and measurement of acoustic, electric, and other non-acoustic stimuli, determination of calibration in relation to accepted standards, and use of various types of instrumentation according to manufacturer's specifications and recommendations.

**CSD 848 Cochlear Implants and Other Assistive Listening Devices.** 3(2-2) D.

Prerequisite: permission. This course provides an investigation into the various types of cochlear implants and an understanding of the anatomical and psychological aspects, including controversies surrounding implantation of children. Emphasis will include intervention and therapy techniques for children and adults with cochlear implants and other alternative listening devices.

**CSD 866 Counseling in Audiology.** 3(3-0) Su.

Various counseling strategies used in clinical audiology practice will be discussed. Counseling needs of adults with hearing loss and families of children with hearing loss will be reviewed.

**CSD 872 Aural Rehabilitation II.** 3(2-2) D.

Prerequisite: permission, CSD 572. Detailed investigation into clinical assessment, treatment techniques, and evaluation of aural rehabilitation. Emphasis on aural rehabilitation in children and adults with cochlear implants. Also emphasizes use of assistive auditory devices in other members of the Deaf and Hard of Hearing populations.

**CSD 878 Practice Management.** 3(3-0) D.

Prerequisite: permission. Investigation into the legal aspects of practice management in the field of Audiology. Emphasis on private and clinical practice. Laws, regulations, policies, management practices, and record maintenance will also be covered.

**CSD 884 Doctoral Project.** 1-2 F,S,Su

Prerequisite: permission. In-depth study in an area of audiology, culminating in a presentation of an extension scholarly paper. Must be repeated for a minimum of 3 credit hours; may be repeated to a maximum of 6 hours.

**CSD 896 Audiology Externship.** 1-9, F,S,Su.

Prerequisite: permission. Professionally supervised practice in auditory assessment and intervention in clinical, hospital, school, and/or other settings. Students enrolled in this class may be required to have a TB test, immunizations, and malpractice insurance. May be repeated.

**CSD 899 Doctoral Thesis.** 1-6 F,S,Su.

Prerequisite: permission. In-depth research in an area of Audiology, culminating in a presentation and defense of the thesis. Repeatable to 6 hours.

## Department of Health, Physical Education, and Recreation

**Main Office:** 103 McDonald Arena, Phone: 836-5370, FAX: 836-5371

**Email:** HealthPEandRecreation@missouristate.edu, **Department Web Site:** www.missouristate.edu/hper

**Recreation and Leisure Studies Office:** 101 Kings Street Annex, Phone: 836-5411, FAX: 836-4200

**Email:** RecreationandLeisureStudies@missouristate.edu

**Acting Department Head:** Associate Professor Sarah G. McCallister, Ed.D.

**Recreation and Leisure Studies Program Director:** Professor Keith D. Ernce, Ph.D.

**Professors:** A. Duane Addleman, Ph.D.; Thomas H. Burnett, Ph.D.; Barbara A. Bushman, Ph.D.; Dalen M. Duitsman, H.S.D.; Steve Illum, Ph.D.; Gerald L. Masterson, Ph.D.; David Oatman, Ed.D.; Rhonda R. Ridinger, Ph.D.

**Associate Professors:** William O'Neill, Ed.D.; Tillman Williams, Ph.D.; Daniel Wilson, Ph.D.; Janice Young, Ed.D.

**Assistant Professors:** Thomas S. Altena, Ed.D.; John Downing, Ph.D.; Hugh M. Gibson, Ed.D.; Yating Liang, Ph.D.; Janice Nelsen, Ed.D.; William Rowe, M.Ed.; Gayle Runke, M.S.

**Instructors:** Brenda S. Goodwin, M.Ed.; Kent O. Hedgpeth, M.Ed.; Darren Taylor, M.S.

**Emeritus Professors:** Larry R. Atwood, M.S.; Wesley Bair, Ed.D.; Nancy Curry, Ph.D.; Kay Hunter, M.Ed.; Gloria Johnson, M.S.; Jay Kinser, M.Ed.; Michael McCarty, Ph.D.; James Mentis, M.S.; Perry Miller, Ed.D.; Gary Shoemaker, Ed.D.; George Simpson, Ed.D.; Reba Sims, M.S.; Peggy Thomas, Ed.D.; William Thomas, M.Ed.; Gary Thompson, M.S.; Alex D. Trombetta, H.S.D.; Dale Williams, M.S.

**Accreditation and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Physical Education, B.S.Ed., Secondary Education/Physical Education, M.S.Ed., National Recreation and Parks Association (NRPA) and American Association for Leisure and Recreation (AALR) – Recreation and Leisure Studies, B.S., National Association for Sport and Physical Education

### General Information and Restrictions

**Fine Arts Course.** PED 240 may be used to meet the Fine Arts Requirement on the Bachelor of Arts degree.

**General Education Courses (Fall 1997 to Present).** Students following the General Education Requirements in effect fall 1997 or beyond must complete PED 100, Fitness For Living, to meet the Health and Well-Being component of the Basic Required Courses. Students who transfer from accredited colleges with at least two hours of credit in health and well-being coursework may have completed the Health and Well-Being component upon approval from the Department Head of Health, Physical Education, and Recreation. Students who successfully complete Basic Training in any of the United States Military branches after December 31, 1997, will be exempt from the PED 100 General Education Requirement. Credit for Military Basic Training must be granted by the Office of Admissions.

**General Education Courses (Prior to Fall 1997).** Students following the General Education Requirements in effect prior to fall 1997 must complete PED 100 and two additional activity credits in PED 101-149, DAN 101-149, AGS 162, or MIL 125. Students whose DD214 forms show completion of basic training and who are following the General Education Requirements in effect prior to fall 1997 may have completed the Health and Well-Being requirement upon approval.

**Requirements for Physically Impaired Students.** Students with medical disabilities may meet the health and well-being requirement by enrolling in a PED 100 lecture section concurrently with a special laboratory section of PED 100 designed to meet the needs of students with disabilities.

**Physical Education/Service Courses.** PED 101-149 are available as electives for students who enter during or after the 1997-98 academic year, for the purpose of providing a means to maintain and/or improve physical well-being.

### Majors

#### Physical Education

##### Bachelor of Science in Education (Certifiable K-12)

Missouri State University is approved by the Missouri State Board of Education to offer basic and advanced professional education programs for purposes of professional certification. Admission to the University does not automatically qualify a student to participate in the professional component of the teacher education program. That participation is granted upon demonstration of a high level of academic and profes-

sional competence. Successful participation should result in the student's achieving certification to teach in Missouri public schools.

#### Professional Portfolio

All students desiring Missouri certification are required to submit a professional portfolio. This portfolio will be assessed, evaluated, and monitored throughout the teacher education program with the assistance and guidance from faculty. There are three distinct checkpoints for the portfolio: 1) at admission to the teacher education program (culmination of the introductory course-PED 200, 2) at the designated methods course(s), and 3) at the culmination of supervised teaching. Completion of certification requirements is a four-step process. Students who receive a certification recommendation must meet the standards for certification eligibility as outlined below:

1. **Requirements for Eligibility to Enroll in PED 200.** Before a student can enroll in PED 200 eligibility requirements must be met.
  - a. A valid ACT score on file if required by the University for admission purposes and/or Missouri Department of Elementary and Secondary Education
  - b. A combined (Missouri State and transfer) GPA of 2.50 or above
  - c. Completed COM 115 with a minimum grade of "C" or concurrent enrollment in COM 115
  - d. Completed at least 30 semester hours
  - e. A highway patrol background check prior to any clinical experience placement (fee required)

Note: The Missouri Department of Elementary & Secondary Education will require an FBI background check prior to issuing a certificate.

2. **Requirements for Admission to Physical Education Teacher Education (PETE) Program.** Students who plan to complete teacher certification requirements must be admitted to the PETE Program. Application is automatically made when enrolling in PED 200. Admission to the PETE Program is required before students are allowed to begin additional courses in the Physical Education Teacher Education component. A student's application for admission to the PETE Program is complete when the requirements listed below are satisfied.
  - a. A combined (both Missouri State and Transfer) GPA of 2.50 or above
  - b. Passed all sections of the Missouri State Board of Education entry examination (CBASE) with a score of 265 or higher on each section and attained a minimum grade of "C" in COM 115.\*
  - c. Completed PED 200 with minimum grade of "C"
  - d. Passed portfolio first checkpoint

- e. A satisfactory background check on file
- f. Complete at least 45 semester hours

Note: All of these requirements must be met before students are permitted to enroll in Physical Education Professional Education courses (PED 411, 431, 440, 468, and 575).

**3. Requirements for Continuance in the PETE Program.** In order to progress through the PETE program a student must:

- a. Maintain a combined (Missouri State and transfer) GPA or 2.50 or above
- b. Maintain a combined (Missouri State and transfer) GPA of 2.50 or above in the major
- c. Pass portfolio checkpoints
- d. Complete Physical Education Professional Education courses with a minimum grade of "C"
- e. Been admitted to the degree program

**4. Requirements for Assignment to Supervised Teaching\*.** (Attend Student Teachers meeting, semester prior to Supervised Teaching) The criteria used to determine eligibility for Supervised Teaching are outlined below. The student must have:

- a. Been admitted to the PETE Program
- b. A combined GPA of 2.50 or above for all college level course work completed
- c. A statement from the Director of Taylor Health and Wellness Center that a tuberculin test or chest x-ray has been completed and that the student has not been identified as infected with a communicable disease
- d. Completed at least 15 hours at Missouri State, with a GPA of 2.50 or above for all work at Missouri State
- e. A combined (Missouri State and Transfer) GPA of 2.50 or above in major
- f. Passed portfolio second checkpoint
- g. Student advisor recommendation
- h. Recommended by the Department of Health, Physical Education, and Recreation

*\*Additional fee of \$235 per 8-week placement for supervised teaching outside of service area.*

**5. Requirements for Certification Recommendation:** To be recommended for an initial Missouri teaching certification the student must have:

- a. Successfully completed Supervised Teaching.
- b. Met all Missouri teacher certification requirements which are in effect at time of certification
- c. A combined (both Missouri State and transfer) GPA of 2.50 or above
- d. Met the criteria established by the Missouri State Board of Education exit evaluation procedures. (Praxis II: Subject Assessments Specialty Area Tests)
- e. Completed professional education courses with a GPA (Missouri State and transfer combined) of 2.50 or above and no grade lower than "C".
- f. A combined (Missouri State and transfer) GPA of 2.50 or above in the certificate subject area (major)
- g. Passed final portfolio requirement.

Note: The Missouri Department of Elementary & Secondary Education will require in FBI background check prior to issuing a certificate.

*\*A student who fails to meet this criterion and who wishes to appeal may do so in writing. Such appeals shall be filed with the chairperson of the Professional Education Exceptions Committee.*

Students majoring in Physical Education are encouraged to participate in athletics, recreational sports, and/or engage in personal physical fitness programs.

Students who complete the degree requirements for the Bachelor of Science in Education in Physical Education are certified to teach physical education and professionally qualified to coach.

### Degree Requirements

**A. General Education** (see General Education section of catalog)

Specific General Education Requirements: BIO 102(4) or 121(4); CHM 105(5) or 106(4) or 160(4)

**B. Major Requirements**

1. ATC 222(2-3); PED 100(2)\*, 200(3), 240(2), 250(3), 252(3), 257(2), 260(2), 264(2), 270(1), 273(1), 277(2), 335(2), 358(3), 360(4), 361(2), 362(4), 386(2), 411(3), 430(2), 431(3), 440(3), 468(4), 485(2), 545(3), 575(3)
2. Select two courses form: PED 300(1), 301(1), 302(1), 303(1), 304(1), 305(1)

\* PED 100 may be used to meet General Education Requirements.

**C. Professional Education Courses.** A grade of "C" or better is required in each of the following courses.

1. PSY 360(3); RDG 474(2), PED 493(5-6); PED 496(5-6)
2. The following major core requirements will meet the Professional Education competencies as required for certification: PED 200(3), 411(3), 431(3), 440(3), 468(4), 575(3).

**D. General Baccalaureate Degree Requirements** (see "Academic Programs and Requirements" section of catalog).

### Radiography (Comprehensive) Bachelor of Science

The Department of Health, Physical Education and Recreation, in cooperation with the CoxHealth and the St. John's Regional Health Center School of Radiologic Technology, offer a baccalaureate degree in Radiography. This program contains professional training that is accredited by the Joint Review Committee on Education in Radiologic Technology sponsored by the American Medical Association. The curriculum includes both university course work that can be completed in 5 semesters and a 24 month sequence of professional courses. Each student must have at least a 2.00 GPA in both the coursework at Missouri State and in the School of Radiologic Technology at CoxHealth or St. John's Regional Health Center. To be a registered radiologic technologist, the student, after having completed the professional block of coursework, must pass a Registry Examination and obtain a letter of good standing from the American Registry of Radiologic Technologists.

A student may pursue this program by completing prerequisite courses at Missouri State and by seeking admission to the School of Radiologic Technology, CoxHealth or St. John's Regional Health Center. Application deadlines are March 1 and February 1 respectively, of each year. Notifications will be sent to successful applicants and classes start in September (CoxHealth) or July (St. John's Regional Health Center). Radiography courses completed at CoxHealth and the St. John's Regional Health Center School of Radiologic Technology will carry the RAD prefix and be entered directly on the Missouri State transcript and the grades earned in those courses will be calculated into the cumulative Missouri State GPA.

In some cases a student may transfer all or part of the professional block of courses from another accredited program in Radiography. Such courses are treated as transfer credit, carry a P (pass) grade only, and are evaluated as two blocks of 21 credit hours each, not as individual courses.

The Radiography courses are credited only on the Bachelor of Science degree with a major in Radiography.

**A. General Education** (see General Education section of catalog) Specific General Education Requirements: BMS 110(4); CHM 105(5) or 160(4)\*; ECO 155(3); MTH 135(3); PSY 121(3)

**B. Major Requirements**

1. BIO 210(3) or 310(5); BMS 307(4), 308(4); CHM 200(5); CSC 121(3) or CIS 101(2) or CSC 101(2)
2. Courses to be taken in the professional curriculum from the School of Radiologic Technology at CoxHealth or St. John's Regional Health Center: RAD 110(1), 120(2), 130(2) 140(1), 150(3), 160(2), 170(1), 180(3), 190(7), 310(3), 315(2), 320(2), 330(1), 340(1), 350(2), 360(2), 370(1), 380(8)
3. Specialty Requirements (choose one option):

- a. **Education Option:** PSY 360(2); SEC 301(2); IMT 565(2); SFR 396(2); plus two courses from PSY 200(3), 306(3) or 502(3), 508(3), 529(3); SFR 547(2)

- b. **Management Option:** ACC 201(3); MGT 340(3), 341(3); plus two courses from ACC 211(3); MGT 343(3), 345(3), 368(3); QBA 237(3)
  - c. **Science Option:** Select 14 hours in science courses from Biology, Biomedical Sciences, or Physics with approval of advisor.
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

*\*CHM 160 should be selected if the science option is chosen.*

## Recreation and Leisure Studies (Non-Comprehensive)

### Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog. *Courses used to meet General Education requirements cannot also be used to meet any major requirements.*

B. Major Requirements (53-63 hours)

1. Core Requirements (47-51 hours)

- a. Complete the following courses: REC 152(3), 190(3), 205(3), 311(3), 330(3), 335(3), 390(3), 410(3), 422(3), 423(3), 490(1), 491(8 or 12)
- b. Complete one of the following statistics courses: AGR 330(3), ECO 308(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 331(3), SOC 302(3)
- c. Complete at least five (5) hours, with advisor approval, from the areas below with a maximum of four (4) hours from any one area. Selected courses cannot be used toward General Education requirements or towards any other requirement within the major.
  - 1. Arts and Crafts: ART 100, 115, 212, 223, 225, 242, 253, 255, 326
  - 2. Dance and Rhythms: DAN 116, 125, 130, 145, 321, 370; PED 126, 128, 136, 240, 270; MUS 100, 112, 133, 135, 137, 321
  - 3. Drama and Theater: ENG 334; THE 101, 205, 224, 255, 506
  - 4. Outdoor Education Activities: AGS 161, 162; MIL 101, 102, 211; PED 101 or 102, 104, 105, 106 or 107, 109, 110, 114, 124, 138
  - 5. Sports: PED 103, 111, 112, 118, 120 or 121, 122 or 123, 127, 130, 133, 135, 143 or 144, 145 or 146, 147 or 148, 149, 234, 260, 264, 273

2. Complete, with advisor approval, 6-12 hours from one of the following options:

- a. **Community Recreation (12 hours):** Prepares students for careers in municipal and youth-serving agencies, Armed Forces, churches, and other similar public or semi-public providers of leisure services. Select from: MGT 286(3), MGT 340(3); MGT 345(3) or PLS 356(3); MKT 150(3) or MKT 350(3).
- b. **Health and Wellness Promotions (6 hours):** Prepares students for various opportunities in the fitness industry, health-related services, and wellness management and promotion. Select from: BMS 240(3) or CFS 130(3); PED 257(2), PED 281(1), PED 282(1), PED 350(3), PED 360(4), PED 362(4), PED 369(4), PED 485(2); MKT 150(3) or MKT 350(3).
- c. **Outdoor Recreation (12 hours):** Prepares students for careers in outdoor recreation and outdoor education within the public or private sector in adventure recreation, outdoor recreation/education facilities, or government natural resource management agencies. Select from: REC 211(3), REC 325(3), REC 411(3); COM 205(3), COM 325(3); PSY 379(3).
- d. **Private/Commercial Recreation (12 hours):** Prepares students for employment in sports industries; country clubs; visitor/tourism, lodging and convention industries; fairs/expositions, recreation equipment retail outlets; managing meetings and special events; and similar providers of leisure goods and services. Select from: REC 303(2), REC 305(1), REC 315(3), REC 320(3); MGT 340(3); and MKT 350(3).
- e. **Therapeutic Recreation (12 hours):** Therapeutic recreation/Recreation Therapy is an allied health profession involved in the care of patients/clients with a variety of diagnoses and functional limitations. Recreation Therapy uses a

continuum of care service models which provide responses to diagnoses treatment and rehabilitation, remediation, leisure education, recreation participation, and promotion. Complete REC 325(3), REC 400(3), REC 401(3), and REC 420(3).

### Additional requirements for Therapeutic Recreation option:

1. Students will be required to initiate and pay for any criminal background check and drug screenings required for clinical agencies.
  2. Student will be required to initiate a criminal record check and receive a response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit participation in a clinical internship or certification as a Certified Therapeutic Recreation Specialist.
  3. **First Aid Proficiency:**  
Each major must show proficiency in First Aid and Cardio Pulmonary Resuscitation (CPR). Students must provide copies of their **current** First Aid and CPR cards/certifications to the internship coordinator prior to enrolling in REC 491 and maintain current certifications throughout the internship. Certifications can be completed by the following:
    - a. Complete PED 253 with a grade of "C" or better (First Aid and CPR certification cards must be obtained as part of successful completion of this course).
    - b. Complete the American Red Cross First Aid course and CPR course and obtain certification. See [www.redcross.org](http://www.redcross.org) for information.
    - c. Complete the American Heart Association First Aid course and CPR course and obtain certification. See [www.americanheart.org](http://www.americanheart.org) for information.
- C. Minor required
- D. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

## Recreation and Leisure Studies (Comprehensive)

### Bachelor of Science

- A. General Education Requirements - see "Academic Programs and Requirements" section of catalog. *Courses used to meet General Education requirements cannot also be used to meet any major requirements.*

B. Major Requirements (74-78 hours)

1. Core Requirements (47-51 hours)

- a. Complete the following courses: REC 152(3), 190(3), 205(3), 311(3), 330(3), 335(3), 390(3), 410(3), 422(3), 423(3), 490(1), 491(8 or 12)
- b. Complete one of the following statistics courses: AGR 330(3), ECO 308(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 331(3), SOC 302(3)
- c. Complete at least five (5) hours, with advisor approval, from the areas below with a maximum of four (4) hours from any one area. Selected courses cannot be used toward General Education requirements or towards any other requirement within the major.
  - 1. Arts and Crafts: ART 100, 115, 212, 223, 225, 242, 253, 255, 326
  - 2. Dance and Rhythms: DAN 116, 125, 130, 145, 321, 370; PED 126, 128, 136, 240, 270; MUS 100, 112, 133, 135, 137, 321
  - 3. Drama and Theater: ENG 334; THE 101, 205, 224, 255, 506
  - 4. Outdoor Education Activities: AGS 161, 162; MIL 101, 102, 211; PED 101 or 102, 104, 105, 106 or 107, 109, 110, 114, 124, 138
  - 5. Sports: PED 103, 111, 112, 118, 120 or 121, 122 or 123, 127, 130, 133, 135, 143 or 144, 145 or 146, 147 or 148, 149, 234, 260, 264, 273

2. Complete 27 hours, with advisor approval, from one of the following options.

- a. **Community Recreation:** Prepares students for careers in municipal and youth-serving agencies, Armed Forces, churches,

- and other similar public or semi-public providers of leisure services. Select from: ACC 109; COM 331; MGT 286, 340; MGT 345 or PLS356; MKT 150 or 350, 352, 354; PED 386, 485; PLN 271, 372, 574; PLS 351; PSY 441; REC 325; SOC 336, 351.
- b. **Health and Wellness Promotions:** Prepares students for various opportunities in the fitness industry, health-related services, and wellness management and promotion. Select from: BMS 240 or CFS130, BMS 333, 335, 563, 567; CFD 155; MGT 286; MKT 150 or 350; MKT 352; PED 257, 281, 282, 350, 360, 362, 369, 485.
  - c. **Outdoor Recreation:** Prepares students for careers in outdoor recreation and outdoor education within the public or private sector in adventure recreation, outdoor recreation/education facilities, or government natural resource management agencies. Select from: AGS 162; AGW 143; BIO 269, 373; COM 205, 325; GLG 171, 350; GRY 108, 300, 301, 351; MIL 102; PED 106, 110, 114, 124; PSY 379; REC 160, 211, 325, 411, 451.
  - d. **Private/Commercial Recreation:** Prepares students for employment in sports industries; country clubs; visitor/tourism, lodging and convention industries; fairs/expositions, recreation equipment retail outlets; managing meetings and special events; and similar providers of leisure goods and services. Select from: ACC 201, 211; FGB 135; MGT 340; MGT 345 or PSY 305; MKT 350, 351, 352, 354, 355, 485; REC 301, 302, 303, 305, 315, 320; RIL 211, 231.
  - e. **Therapeutic Recreation:** Therapeutic Recreation/Recreation Therapy is an allied health profession involved in the care of patients/clients with a variety of diagnoses and functional limitations. Recreation Therapy uses a continuum of care service models which provide responses to diagnoses treatment and rehabilitation, remediation, leisure education, recreation participation, and promotion. Select from: (Required NCTRC certification standards) REC 325, REC 400, REC 401, REC 420; CFD 155; PED 250 or BMS 307; PED 252 or BMS 308; PSY 304; BMS 195; CAS 210, 330; COM 505; CSD 321; GER 302, 350; LLT 102; PED 350, 466, 468, 545; PSY 303, 331, 441, 487, 542, 543; REC 495, 499; SOC 341; SPE 310; SWK 330.  
Additional requirements for Therapeutic Recreation option:
    1. Students will be required to initiate and pay for any criminal background checks and drug screenings required for clinical agencies.
    2. Student will be required to initiate a criminal record check and receive a response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit participation in a clinical internship or certification as a Certified Therapeutic Recreation Specialist.
3. **First Aid Proficiency:**  
Each major must show proficiency in First Aid and Cardio Pulmonary Resuscitation (CPR). Students must provide copies of their **current** First Aid and CPR cards/certifications to the internship coordinator prior to enrolling in REC 491 and maintain current certifications throughout the internship. Certifications can be completed by the following:
    - a. Complete PED 253 with a grade of "C" or better (First Aid and CPR certification cards must be obtained as part of successful completion of this course).
    - b. Complete the American Red Cross First Aid course and CPR course and obtain certification. See [www.redcross.org](http://www.redcross.org) for information.
    - c. Complete the American Heart Association First Aid course and CPR course and obtain certification. See [www.americanheart.org](http://www.americanheart.org) for information.
- C. General Baccalaureate Degree Requirements - see "Academic Programs and Requirements" section of catalog

### Respiratory Therapy (Comprehensive) Bachelor of Science

Eligibility for admission to the B.S. degree program is limited to those persons who have completed a registry level program in Respiratory Therapy. There are within the B.S. degree program three options. The

B.S. degree program is intended for those who are seeking career enhancement in the field of Respiratory Therapy.

- A. General Education (see General Education section of catalog) Specific General Education Requirements: BIO 121(4) or BMS 110(4); CHM 105(5) or 160(4); PSY 121(3)
- B. Major Requirements
  1. BMS 307(4), 308(4), BIO 210(3); ACC 201(3) or ECO 155(3)\*; PHY 123(4)\*  
*\* May be used in General Education Requirements*
  2. Completion of a registry level program in Respiratory Therapy (12 hours credited as lower division, 23 hours upper division)
  3. Specialty Requirements (choose one option):
    - a. **Education Option:** PSY 390(3); SEC 300(2), 301(2); IMT 565(2); SFR 396(2); plus two courses from PSY 441(3); SFR 250(3) or 353(2) or 354(2); SFR 547(2)
    - b. **Management Option:** ECO 155(3); MGT 340(3), 341(3); plus two courses from ACC 211(3); MGT 343(3), 345(3), 368(3); QBA 237(3)
    - c. **Science Option:** MTH 340(3); plus 11 hours of electives selected with approval of advisor.
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minor

### Coaching (for Non-Physical Education Majors)

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Science in Education (Non-Certifiable)

- A. ATC 222(2); PED 250(3), 335(2), 360(4), 366(3), 392(1), 485(2);
- B. Select two courses from: PED 300(1), 301(1), 302(1), 303(1), 304(1), 305(1)

## Certifications

### Driver Education

#### Bachelor of Science in Education

#### (Certifiable grades 9-12, additional endorsement only)

Students who complete the Bachelor of Science in Education degree with a major in Secondary Education may receive Missouri state certification in Driver Education grades 9-12 by completing the following courses: ATC 222(2) or PED 253(2); PED 370(3), 371(4), 372(3); PSY 390(3) or 441(3); electives from PED 373(2), 499(1-5); CRM 210(3); IMT 365(3) or 565(2); SFR 442(2) or 547(2) or PSY 535(3); IDM 455(3) to bring total to no fewer than 21 hours. In order to meet Missouri State teacher certification requirements, all candidates for the Bachelor of Science in Education degree must have at least a 2.50 GPA (Missouri State and transfer grades combined) in the certificate subject area which includes all courses listed above.

### Health Education

#### (Certifiable grades K-9, K-12, 9-12)

Students who complete the Bachelor of Science in Education degree with a major in Physical Education may receive Missouri state certification in Health Education grades K-9, K-12, or 9-12 by completing the following courses: BMS 307(4) or PED 250(3), BMS 308(4) or PED 252(3), or equivalents; CFD 163(3); CFS 130(3) or BMS 240(3); PED 253(2), 256(2), 257(2), 358(3); PSY 101(3); SWK 330(3); 9-12 certification student must select additional hours of electives in health-related courses, in consultation with their advisor, to bring total to 30 hours; K-12 certification student must select additional hours of electives in health-related courses, in consultation with their advisor, to bring total to 32 hours. In order to meet Missouri state teacher certification requirements, student must have at least a 2.50 (Missouri State and transfer grades combined) GPA in the certificate subject area which includes all courses listed above.

## Graduate Programs

The Master of Science degree offers a major in Health Promotion and Wellness Management. The Master of Science in Education degree (secondary education major) offers an area of emphasis in Physical Education. A Master of Public Health is also offered. See Graduate Catalog for details.

## University Certificate

A graduate level certificate program is available in Sports Management. See Graduate Catalog for details.

## Health Courses

**HLH 195 Introduction to the Health Professions.** 1(0-2) F,S. (Identical with BMS 195)

Designed to familiarize students with a variety of health career opportunities, and to provide guidance in early curriculum planning and alternative career options.

**HLH 399 Cooperative Education in the Health Sciences.** 1-6, F,S. Prerequisite: acceptance into the Cooperative Education Program and permission of Director of Health Arts & Sciences. A supervised learning experience that integrates on-the-job training with academic credit. The student will be required to complete assigned academic work related to the area of practical experience.

*The following courses are open only to graduate students.*

**HLH 600 (PED) Research Methods in Health, Physical Education & Recreation.** 3(3-0) F.

Nature of research methodology, experimental design and scientific writing. Opportunity to explore research literature and to conduct research.

**HLH 620 Epidemiology.** 3(3-0) F,S. (Identical with NUR 600).

This course is an introduction to the epidemiological methods and procedures utilized in the study of the origin, distribution, and control of disease. It will include the study of infectious and non-infectious disease etiology, including vector control, host defenses and resistance, and investigation of disease outbreaks. Students will learn to use basic epidemiological concepts and methods for program planning, evaluation, and research. Basic statistical measures used in the analysis of clinical and epidemiologic evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered. Cannot receive credit for HLH 620 and NUR 600.

**HLH 645 Environmental Health.** 3(3-0) F,S.

This course will investigate and examine the relationships of environmental health problems to human health. Students will survey the major environmental issues facing developed and developing countries. Topics include water supply, air and noise pollution, sewage treatment and waste disposal, pest and pesticides, toxic waste, energy alternatives, food and drug quality assurance, population control, and environmental disease control.

**HLH 650 (PED) Programming Approaches in Wellness/Health Promotion.** 3(3-0) S.

Organizational and administrative approaches utilized in the conduct of wellness/health promotion programs will be studied. Emphasis will be placed upon the selection, development, promotion, conduct, and evaluation of the various components of wellness/health promotion programs.

**HLH 652 (PED) Health Risk Identification and Management.** 3(3-0) S.

Procedures and instrumentation utilized in the identification and assessment of risk factors associated with cardiovascular and other major lifestyle generated diseases and conditions will be studied. Emphasis will be placed upon the utilization of risk factor data in the conduct of a wellness/health promotion program.

**HLH 656 Introduction To Public Health.** 3(3-0) F.

This course will provide a general introduction to Public Health. It will discuss the history of Public Health; international, federal, state, and local agencies; voluntary health agencies; professional health organizations; the legislative process as it relates to Public Health, environmental health, health promotion, basic Public Health statistics and an introduction to Epidemiology.

**HLH 658 Contemporary Issues in Public Health.** 3(3-0) F.

In-depth consideration of pertinent issues, trends, controversy, and current research in Public Health.

**HLH 660 Health Promotion Planning.** 3(3-0) S.

A culminating course in the MS in Health Promotion and Wellness Management degree program. This course will focus on the development of health promotion in the workplace: Topics discussed will include effects of health promotion, the compression of morbidity, developing awareness strategies, health assessments, theories of health behavior (self-efficacy, social learning theory, health belief model, theory of planned behavior, stages of change theory), and evaluating existing workplace health promotion programs (physical activity in the workplace, worksite nutrition programs, worksite weight management, tobacco control and cessation, and stress management). The current professional literature related to health promotion will also be reviewed.

**HLH 670 (PED) Seminar in Health Promotion and Wellness Management.** 3(3-0) S.

Prerequisite: HLH 600 or permission of instructor. Review of the professional literature relating to current issues in health promotion and wellness. Topics researched and discussed include health care ethics, diversity, cultural aspects, long-range planning, public relations, legal considerations, and grant-writing. Includes guided development and completion of an extensive research paper.

**HLH 672 Hazardous/Toxic Materials Management.** 3(3-0) F.

A study of safety methods for identifying, monitoring, handling, processing, containing, storing, and disposing hazardous and toxic substances in the environment and workplace.

**HLH 675 Principles and Skills of Public Health Administration.** 3(3-0) F,S.

This course is designed to provide a comprehensive overview of the administrative, managerial and organizational practices of health professionals in a variety of settings. Opportunities for the development and application of administrative competencies in health education/health care settings will be provided.

**HLH 678 Chronic Disease Epidemiology.** 3(3-0) S.

This course examines problems and methods used in studying chronic diseases. Focus will be on the collection and interpretation of chronic disease data, and application of epidemiological and statistical principles pertaining to cancer, cardiovascular diseases, cerebrovascular diseases, chronic lung diseases, diabetes, musculoskeletal diseases, neurologic disorders and other chronic diseases.

**HLH 685 Seminar in Public Health.** 1-3 D.

Prerequisite: permission of Graduate Coordinator. Variable topics course. The study, analysis, and discussion of timely issues in Public Health. May be repeated for credit if topic is different.

**HLH 688 Public Health Practicum.** 1,D.

The *Public Health Practicum* is required of all students enrolled in the Professional Option of the MPH program. It will involve developing, implementing and establishing a public health intervention that includes, reflects, and integrates public health principles, theory, and practice as identified in the Masters in Public Health curriculum. All required courses must be completed in order to be eligible. Project selection must be approved by the course instructor.

**HLH 690 Independent Study in Public Health.** 1-3, D.

Prerequisite: permission of instructor and department head. The *Independent Study in Public Health* is a carefully planned experience which allows the advanced student to investigate a clearly defined problem that will enhance their academic preparation. May be repeated for credit.

**HLH 691 (PED) Wellness Internship.** 1-6 F.

Prerequisite: permission of Health Internship Coordinator. Supervised field experience in a health promotion or health care setting. Directly involves the student in the application of organizational skills and wellness manager skills. Student must complete a minimum number of clinical hours.

**HLH 698 Public Health Field Experience.** 1-6 D.

Prerequisite: completion of 36 credit hours in the degree program. The final culminating experience for all students is the field experience. The required field experience provides experience in program development, community relations, public education, and research. Possible sites include: official health agencies, voluntary health agencies, or community social agencies. Selection is dependent on the students'

backgrounds and career expectations. Students may choose to spend their entire time in one agency, or, for shorter periods, in 2 or more agencies. All required courses must be completed in order to be eligible. The field experience can be done during the fall, spring, or summer. Students must complete a minimum number of clinical hours. All field experiences must be approved by the internship coordinator to ensure the site acceptability.

## Physical Education/General Education Courses

*(Courses 101-149 are general education physical education courses for students following the general education program in effect prior to fall 1997)*

### **PED 100 Fitness for Living.** 2(1-2) F,S.

The values of health-related physical fitness; ramifications of a negative health life-style presented for individuals living in an automated, sedentary society, encouraging students to make intelligent decisions concerning a positive health life-style to enhance wellness now and in the future. Laboratory helps the individual discover his or her needs for achieving and maintaining high level wellness.

### **PED 101 Beginning Swimming.** 1(0-2) D.

Designed to teach novice swimmer basic swimming skills.

### **PED 102 Intermediate Swimming.** 1(0-2) Su.

Prerequisite: PED 101 or demonstrate swimming skill first day of class. Review of basic strokes. Instruction in competitive strokes. Basic diving instruction. May be taken twice for credit.

### **PED 103 Lifesaving.** 1(0-2) D.

Prerequisite: PED 102 or demonstrate swimming skill first day of class, first aid and CPR certification or permission of instructor. Development of personal safety skills and techniques of aquatic rescue for lifeguarding; certification in American Red Cross Life Guard Training may be obtained.

### **PED 104 Water Safety Instruction.** 1(0-2) S.

Prerequisite: PED 103 and permission of instructor. Prepares the student for complete American Red Cross Water Safety Instruction Certificate.

### **PED 105 Alpine Skiing.** 1(0-2) F.

Prerequisite: permission of instructor. Fundamental skills of alpine skiing; required Student Union ski trip for the purpose of instruction and practice on snow.

### **PED 106 Sailing.** 1(0-2) F,S.

Prerequisite: demonstrate swimming skill first day of class. Development of skills and knowledge of sailing. Course fee.

### **PED 107 Intermediate Sailing.** 1(0-2) F,S.

Prerequisite: PED 106 or comparable skill and swimming skills. The course includes a refinement of basic skills and discussion of sailing theory and sailboat racing tactics. May be repeated to a maximum of 2 hours credit. Course fee.

### **PED 109 Cycling.** 1(0-2) D.

Cycling as a means of transportation, leisure activity, and fitness medium. Emphasis placed on safety, bikepacking, and cycle maintenance. Student must furnish a bicycle (ten-speed recommended). Field trips required.

### **PED 110 Backpacking.** 1(0-2) D.

Backpacking as a lifetime leisure activity. Emphasis on equipment, safety, techniques, and trip planning. Field trips required.

### **PED 111 Beginning Badminton.** 1(0-2) F,S.

Fundamentals of grip, stance, footwork and badminton strokes.

### **PED 112 Beginning Handball.** 1(0-2) F,S.

Rules, techniques and strategy of four wall handball.

### **PED 113 Beginning Racquetball.** 1(0-2) F,S.

Fundamental skills, rules, techniques and strategy of racquetball.

### **PED 114 Canoeing.** 1(0-2) D.

Prerequisite: demonstrate swimming skill first day of class. River canoeing as a lifetime leisure activity. Emphasis on safety, techniques, trip planning, and equipment. Field trips required.

### **PED 118 Bowling.** 1(0-2) F,S.

History, fundamental skills, techniques, terminology, rules, strategy and safety skills of bowling. Course fee.

### **PED 120 Beginning Gymnastics.** 1(0-2) F,S.

Emphasis on skill progressions in tumbling and vaulting with an introduction to apparatus and balance work. Principles of training, conditioning, and spotting included.

### **PED 121 Intermediate-Advanced Gymnastics.** 1(0-2) F,S.

Prerequisite: PED 120. Emphasis on skill progressions for the Olympic events. Principles of training, conditioning, and spotting are included. May be repeated for a maximum of 3 hours.

### **PED 122 Fencing.** 1(0-2) F,S.

History, fundamental skills, techniques, terminology, nomenclature, rules, strategy and safety skills of fencing.

### **PED 123 Intermediate Fencing.** 1(0-2) F,S.

Prerequisite: PED 122. Advanced compound offenses and defenses; detailed work on competitive techniques. May be taken twice for credit.

### **PED 124 Techniques and Principles of Hunting and Fishing.** 1(0-2) F,S.

Skills and safety factors of hunting and fishing; Missouri hunting, fishing, and conservation laws and principles upon which these laws are founded.

### **PED 125 Aerobic Dance.** 1(0-2) F,S.

Aerobic Dance is an exercise program of choreographed routines involving continuous rhythmic activity. The combination of motor skills, jogging, dancing, and vigorous exercise are set to music in a motivational manner. The routines are designed to be simple enough for all individuals to be successful as they move toward cardiovascular fitness.

### **PED 126 Folk and Square Dance.** 1(0-2) F,S.

Understanding folk and square dance skills, directional patterns, structure.

### **PED 127 Weight Training.** 1(0-2) F,S.

Scientifically founded isotonic and isometric weight training programs; development of cardiovascular and muscular endurance, strength and flexibility.

### **PED 128 Western Square Dance.** 1(0-2) D.

Review of the 50 basics and introduction to the 25 extended basic skills and patterns of Western Square Dance.

### **PED 130 Adapted Physical Activity.** 1(0-2) F,S.

Prerequisite: physician's approval. Adapted physical activity to meet the needs of students with disabilities and other physical limitations. May be repeated for credit.

### **PED 133 Volleyball.** 1(0-2) D.

Basic skills of power volleyball.

### **PED 135 Selected Activities.** 1(0-2) D.

A variable content course designed to develop lifetime skills in sports, fitness, and/or leisure activities. Activities selected will vary according to demand. Course may be repeated any number of times provided the same activity is not retaken. Additional fees may be required - see semester schedule.

### **PED 136 Ballroom Dance.** 1(0-2) F,S.

Ballroom dances; technique, lead and style.

### **PED 138 Archery.** 1(0-2) F,S.

Cultural aspects of archery throughout history; target archery, field archery, bowhunting and bowfishing.

### **PED 143 Beginning Tennis.** 1(0-2) F,S.

Fundamental tennis skills and mechanical principles. Rules, courtesies and etiquette.

### **PED 144 Intermediate Tennis.** 1(0-2) F,S.

Prerequisite: PED 143. Instruction in intermediate and advanced elements of strokes and strategy used in singles and doubles. May be taken twice for credit.

### **PED 145 Beginning Golf.** 1(0-2) F,S.

Choice and use of clubs, form to be used, rules and courtesies of golf.

### **PED 146 Intermediate Golf.** 1(0-2) F,S.

Prerequisite: PED 145. Correction of errors in basic strokes with all clubs. Application of mechanical principles. Instruction concerning strategy used on different golf courses in variable weather. May be taken twice for credit.

### **PED 147 Beginning Judo.** 1(0-2) F,S.

Fundamental falling (ukemi), holding techniques (Katamewaza), basic mat and free exercises (mat randori), and history of judo.

### **PED 148 Intermediate Judo.** 1(0-2) S.

Prerequisite: PED 147 or Brown or Black Belt Ranking. Basic throwing techniques of judo; all mat techniques required for third degree brown belt status (sankyu). May be taken twice for credit.

### **PED 149 Self-Defense.** 1(0-2) F,S.

Prerequisite: PED 147 or permission of instructor. Introduction to self-defense techniques including combative and defensive stances and position, taisabaki movement, parries, counterattack movement, hold releases, attack techniques, and ground defense.



## Physical Education Courses

### **PED 200 Foundations of Education and Physical Education.** 3(2-2) F,S.

Prerequisite: PED 100. This course introduces the physical education major to the profession of education while focusing on the discipline of health and physical education in American education. It provides the prospective teacher/coach a knowledge base in the theoretical aspects of PK-12 education. Additionally, this course examines both the nature and history of the teaching profession, PK-12 school orientation, educational theories, and legal issues pertaining to the American educational institution. It also explores the nature of physical movement, as well as the breadth, scope, and significance of physical education and its role and relationship to the overall curriculum of the American public schools. Emphasis will be placed on professional competencies required for certification and professional development. This course also requires a twenty (20) hour observational experience, utilizing the Systematic Supervision Model, designed to explore professional teaching qualifications, cultural diversity, student needs, and school orientation with emphasis on training educators as reflective-decision makers. This observational experience will include both on-campus and approved PK-12 off-campus placement sites. As a portion of the course grade students will be required to satisfy the first checkpoint of the artifact development as required for the Professional Preparation Portfolio. A grade of "C" or better is required in this course. The C-Base exam must be taken during enrollment in this course.

### **PED 201 Introduction to Biomechanics.** 2(2-0) D.

Prerequisite: 30 credit hours. Mechanics of sports; principles of motion related to individual and team sports. Techniques to analyze individual sport skills.

### **PED 218 Organization and Administration of Intramurals.** 2(2-0) D.

Prerequisite: 30 credit hours. Organization and administration of an effective program of intramural activities for secondary and college levels.

### **PED 234 Sports Officiating.** 2(2-1) F,S.

Procedures and requirements for registration as a Missouri State High School Activities Association (MSHSAA) Sports Official. Ethical standards and development of a philosophy for an official. Knowledge, rules and basic skills for officiating basketball, football, baseball, softball, track and field, volleyball, and wrestling. Students select a practicum experience in at least one sport.

### **PED 240 Creative Dance and Exploratory Activities for Children.** 2(1-2) F,S.

Creative activities for movement and dance necessary for the physical development of elementary school students.

### **PED 250 Applied Human Anatomy.** 3(2-2) F,S.

Prerequisite: BIO 102 or BMS 110. Study of the structure of the human body with emphasis on the organ systems operational in effecting human movement. Integrating structural and biomechanical aspects of movement; focusing on functional anatomy using a systematic approach.

### **PED 252 Applied Human Physiology.** 3(2-2) F,S.

Prerequisite: CHM 105 or CHM 160; PED 250 or BMS 307. Study of the function and responses of each organ system in the body. Emphasis is directed toward a process of examining functional concepts requisite to critical assessment and description of human movement, exercise, sport and wellness.

### **PED 260 Outdoor Leisure Education.** 2(1-2) F,S.

Introduction to outdoor leisure skills. Selected outdoor education activities, e.g. orienteering, hiking, etc. Field trips required.

### **PED 261 Wrestling Techniques.** 1(0-2) F.

Fundamental wrestling skills necessary for demonstration purposes in teaching-coaching situations. Recommended for men only.

### **PED 264 Team Sports.** 2(0-4) F,S.

Fundamental skills and techniques of basketball, field hockey, soccer/speedball, softball and volleyball; emphasis on demonstration in teaching-coaching situations.

### **PED 270 Recreational and Aerobic Dance Techniques.** 1(0-2) F,S.

Fundamental skills in folk, square, social, and aerobic dance necessary for demonstration purposes in teaching situations.

### **PED 273 Aquatics.** 1(0-2) F,S.

Prerequisite: PED 101 or demonstrate swimming skill first day of classes. Emphasis on stroke mechanics for swimming and basic diving. Development of the skills necessary to demonstrate in teaching-coaching situations.

### **PED 277 Individual and Dual Sports.** 2(0-4) F,S.

Fundamental skills and techniques of golf, racket sports, track and field, and tumbling/apparatus; emphasis on demonstration in teaching-coaching situations.

### **PED 281 The Athlete's Diet.** 1(1-0) S.

Instruction on the current research and concepts on diet and exercise performance, body weight and composition, fluid and electrolyte balance during exercise, and selected topics on proposed dietary ergogenic aids.

### **PED 282 Sports Conditioning.** 1(1-0) S.

Instruction on the theory and practical aspects of designing and evaluating training and conditioning programs for competitive athletes.

### **PED 300 Teaching and Coaching Volleyball.** 1(0-2) S.

Prerequisite: 60 credit hours. Analysis of volleyball skills. Strengths and weaknesses of various offensive and defensive systems. Development of coaching and game plays, discussion of strategies, screening and selection of player personnel.

### **PED 301 Teaching and Coaching Football.** 1(0-2) S.

Prerequisite: 60 credit hours. Analysis of football skills. Offensive and defensive systems applicable to varying skill levels. Analysis of game strategy, scouting, yearly organization. Training, recruiting and organization of coaching personnel and daily coaching plans.

### **PED 302 Teaching and Coaching Basketball.** 1(0-2) F.

Prerequisite: 60 credit hours. Analysis of basketball skills. Factors which compose the game of basketball; analysis of varying offenses and defenses used in competition. Team selection, development and organization.

### **PED 303 Teaching and Coaching Track and Field.** 1(0-2) F,S.

Prerequisite: 60 credit hours. Analysis of track and field skills. Organization and development of a track and field team. Preparation and selection of athletes for competition. Practical application of meet management techniques.

### **PED 304 Teaching and Coaching Baseball.** 1(0-2) F.

Prerequisite: 60 credit hours. Analysis of baseball skills. Development of a baseball team, selection of players by position, team drills, offensive and defensive strategies, scouting, management of players.

### **PED 305 Teaching and Coaching Softball.** 1(0-2) F.

Prerequisite: 60 credit hours. Analysis of softball skills. Development of competitive softball team, player selection by position, team drills, offensive and defensive strategies, scouting and player management.

### **PED 335 Organization and Administration of Physical Education and Sport.** 2(1-2) F,S.

Prerequisite: 60 credit hours. Organizational procedures and management principles of sport and physical education programs. Directed coaching experience on campus and in the middle/secondary school setting is required.

### **PED 341 Physical Education for Elementary Teachers.** 2(2-0) F,S.

Prerequisite: PED 100. Games, rhythms, material and methods utilized by elementary school classroom teachers to teach physical education.

### **PED 360 Kinesiology.** 4(3-2) F,S.

Prerequisite: PED 250 or BMS 307. Mechanics of sports and related activities; principles of motion, body movements, muscle action and joint mechanics in relation to human movement. Principles of anatomic and biomechanical analysis. A maximum of 4 credit hours will be granted for PED 201 and PED 360.

### **PED 361 Principles of Motor Learning in Physical Education.** 2(2-0) F,S.

Prerequisite: PED 250 or BMS 307; and PED 252 or BMS 308. Process by which motor skills are learned; individual variables which affect acquisition of motor skills; techniques of improving motor performance.

### **PED 362 Exercise Physiology.** 4(3-2) F,S.

Prerequisite: CHM 105 or CHM 160; and PED 252 or BMS 308. Physiologic effects of muscular activity under different intensities, durations and environments on the human organism. A grade of "C" or better is required in this course in order to take BMS 563. This course may not be taken Pass/Not Pass. Student may not receive credit for both PED 362 and 366.



**PED 366 Exercise Physiology.** 3(3-0) F,S.

Prerequisite: PED 250 or BMS 307. Same course as PED 362 except it does not include a laboratory component. This course credited on a coaching minor only. (PED 366 will not count toward a physical education major). Students may not receive credit for both PED 362 and 366.

**PED 386 Social Basis of Physical Activity.** 2(2-0) F,S.

Prerequisite: 60 credit hours. Study of the growth and development of physical education, athletics and sports organization and their effect on participants and spectators in America since 1875.

**PED 392 Coaching Practicum.** 1(0-2) or 2(0-4) F,S.

Prerequisite: permission of instructor. Students should have completed coursework or concentrated experience in an area selected for practicum. A practical experience which students can relate to coaching theory. The students are assigned to participate in coaching related activities on or off campus in the secondary schools for exposure to coaching philosophies, organization, methods and procedures for preparing athletes and athletic teams for competition. May be taken twice for credit.

**PED 400 Movement to Enhance Cognition: Elementary Physical Education for Elementary Teachers.** 1(1-0) F,S,Su.

Prerequisite: concurrent enrollment in ELE 400 for 2 credit hours. Games, rhythms, materials, and methods utilized by elementary school classroom teachers to teach physical education and integrate kinesthetic movement into classroom instruction.

**PED 402 Women In Sport.** 3(3-0)S.

Prerequisite: 60 credit hours or permission of instructor. A survey of the role of women in sport and how they have developed to present status. Topics to be covered include women in the history of sport: athletic injury specific to women, care and prevention: physiology of the woman athlete and sport psychology for the woman athlete.

**PED 411 (SEC) Teaching of Secondary Physical Education.** 3(2-2) F,S.

Prerequisite: PED 264, 270, 273, 277, 360, 431 and 440; and admitted to teacher education program. Exploration of various teaching methods and selection of activities as they apply to secondary physical education. Unit planning, lesson planning and micro teaching of physical education activities. Second portfolio checkpoint. Participation in clinical/field experiences in area secondary schools is required. A grade of "C" or better required in this course in order to take PED 493 or PED 496. May not be taken Pass/Not Pass.

**PED 430 History and Philosophy of Physical Education.** 2(2-0) F,S.

Prerequisite: PED 200 and 75 credit hours. Synthesis of historically relevant material emanating from contemporary problems in physical education. Use of critical analysis of physical education concepts to bridge the gap between theory and practice.

**PED 431 Teaching K-4 Physical Education.** 3(2-2) F,S.

Prerequisite: PED 240 and PED 264 and PED 270. Emphasis on current teaching methods, management skills, and curriculum development for teaching physical education to K-4 students. An on-campus lecture/lab and participation in clinical/field experiences in the area elementary schools.

**PED 440 Middle School (5-9) Physical Education.** 3(2-2) F,S.

Prerequisite: PED 240 and PED 264 and PED 270 and PED 360. Emphasis on current teaching methods, management skills, and curriculum development for teaching physical education in the middle school (5-9). An on campus lecture/lab and clinical/field experiences in area middle schools.

**PED 445 Teaching of Middle and Secondary Physical Education.** 4(2-4) F,S.

Prerequisite: PED 200, 240, 250, 252, 261, 264, 270, 273, 277, 360 and 2.50 GPA and pass all sections of the C-Base exam with a score of 265 or higher on each section, and completion of 70 hours. Course will include exploration of Mosston and Ashworth's teaching spectrum, teaching methods, and selection of activities. Emphasis will be placed on current teaching methodology, program content inclusive to MOSTEP and NASPE standards, scope and sequencing of physical activities, development of unit and lesson plans, and classroom management for middle and secondary school physical education. Also included will be discussions regarding legal issues and the attitudes and values surrounding middle and secondary education. Additional focus will be placed on curriculum development, implementation, and assessment of the curriculum process. To promote critical thinking and reflective decision making, a comprehensive field experience in both middle and secondary physical education

settings is required. This course is credited only on the BS in Education degree. Students will be required to generate selected artifacts as required for completion of the Professional Preparation Portfolio. A grade of "C" or better is required in this course in order to enroll in SEC 493 or 494. May not be taken Pass/Not Pass.

**PED 466 Physical Education for the Mentally Handicapped.** 3(2-2)S.

Prerequisite: SPE 310 or permission of instructor. Identification and program development of physical activities for the severely retarded, trainable retarded, and educable retarded. Laboratory is off campus.

**PED 467 Physical and Leisure Activities for the Aged.** 4(2-4) S.

Prerequisite: PED 250 or BMS 307; and PED 252 or BMS 308; or permission of instructor. The effects of aging and common degenerative diseases of the aged on physical performance and leisure. Included are units on assessment of physical working capacity, flexibility, body composition, strength maintenance. Also, units on selection of recreational and performance activities commensurate with functioning capacity. A series of field experiences with programming of select activities for the aged is required.

**PED 468 Adapted Physical Education.** 4(2-4) F,S.

Prerequisite: PED 360 and PED 362. Emphasizes nature and scope of physical, cognitive, and emotional disabilities; referral, placement, and programming in physical education; federal and state laws that pertain to the education and physical education of special populations; and instruction in the modification of motor and fitness activities, and therapeutic exercise. Three hours of directed practicum per week.

**PED 485 (314) Psychology of Sport and Physical Activity.** 2(2-0) F,S.

Prerequisite: PSY 121. Inquiry into the psychological implications of sport and physical activity participation in relation to motivation and behavior of the participant.

**PED 490 Sports Practicum.** 1-4, Su.

Prerequisite: senior or graduate standing. Short-term course updates physical educators in new developments within selected sport areas. Techniques of coaching and conditioning. May be repeated for credit.

**PED 493 Supervised Teaching (Secondary).** 5-6 F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching, and concurrent enrollment with PED 496 required. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Cannot receive credit for both SEC 493 and PED 493.

**PED 496 Supervised Teaching (Elementary).** 5-6 F,S.

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; approval for student teaching, and concurrent enrollment in PED 493. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities and attends both individual and group conferences. Credited only on B.S. in Education. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Cannot receive credit for both ELE 496 and PED 496.

**PED 498 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498,

COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, SCI 499, SPE 499, THE 493.

**PED 500 Seminar in Physical Education.** 1-3, D.

Prerequisite: 60 credit hours and permission of department head. Directed reading and special investigation of selected subjects in physical education, health, and safety; research projects under faculty supervision. May be repeated for a maximum of 9 hours of credit. Variable Content Course.

**PED 545 Perceptual and Motor Development.** 3(2-2) F,S.

Prerequisite: PSY 380 or PSY 385 or PSY 390 and 90 credit hours or permission of instructor. Perceptual and motor development from prenatal life to adolescence; relationships of growth factors that influence motor abilities; difficulties that may arise when the normal course of development is interrupted. Includes a laboratory and a practicum experience.

**PED 575 Measurement and Evaluation Applied to Physical Education.** 3(3-0) F,S.

Prerequisite: 90 credit hours. Use of authentic and traditional assessment techniques in assessing student performance and informing curricular change. Includes basic statistics, use of statistical software packages, evaluation of test validity and bias, and written test construction.

## Physical Education/Driver and Safety Education Courses

**PED 370 Content and Materials in Safety Education.** 3(3-0) D.  
General safety education in the instruction program of elementary and secondary schools; accident causes and remedial action.

**PED 371 Driver Education.** 4(3-2) D.

Prerequisite: valid operator's license and 60 credit hours. Prepares student to teach driver education in secondary school. Methods, lesson planning, psychophysical testing and driver education materials presented. Each student instructs one individual to operate an automobile.

**PED 372 Problems in Driver Education and Traffic Safety.** 3(3-0) D.

Prerequisite: PED 371. Acquaints the prospective driver education teacher with problems of automotive and traffic safety.

**PED 373 Multiple Car Driving Ranges—Simulation.** 2(2-0) D.

Prerequisite: PED 371. Design and use of multiple car driving ranges. Simulation involving electro-mechanical devices and programmed films to reproduce situations which occur in the actual driving environment.

## Physical Education/Health Education Courses

**PED 253 (153) First Aid.** 2(2-0) F,S.

First aid and civil defense knowledge; procedures in times of emergency, sickness, wounds, shock, poisoning, fractures, unconsciousness, stoppage of breathing.

**PED 256 Community Health.** 2(2-0) F,S.

School, community, state, national and international health programs; their relationship to the student; major communicable and non-communicable diseases and community health.

**PED 257 Personal Health.** 2(2-0) F,S.

Health problems; factors that contribute to development and maintenance of health for the individual living in a contemporary, automated society.

**PED 350 Health and Wellness Promotion.** 3(3-0) F.

Prerequisite: PED 257. Principles and objectives of health and wellness promotions. Critical issues in health and wellness. The structure, function, and contribution of public, private, and voluntary agencies involved in health and wellness promotion. Individual and group factors related to the promotion, maintenance, and restoration of health.

**PED 358 Health Education Methods.** 3(3-0) F,S.

Methods, materials and resources for preparation, development and implementation of an effective school Health Education program.

**PED 369 Health Appraisal and Exercise Testing Techniques.** 4(3-2) F.

Prerequisite: PED 362. Introduction to appropriate health appraisal and exercise tests for the purpose of exercise programming and prescription.

## Physical Education/Special Courses

**PED 297 Special Topics.** 1-2, D.

Variable content and variable credit course. Special study of physical education or leisure skills. May be repeated for credit to a maximum of 4 credit hours. Same topic may be repeated once for credit.

**PED 310 Writing II: Philosophical and Historical Issues in Physical Education, Recreation and Sport.** 3(3,0) F,S.

Prerequisite: ENG 110 and PED 200 or REC 152; and 45 credit hours. A writing intensive course focusing on the synthesis or philosophical and historically relevant material emanating from contemporary problems in physical education, recreation and sport. Writing tasks will involve the use of extensive research and critical analysis of major issues in the fields of physical education and recreation to bridge the gap between theory and practice. Areas of coverage will vary with the instructor. Meets Writing II requirement for a major in Physical Education or Recreation and Leisure Studies.

**PED 405 Gender and Sport.** 1, D.

An examination of sport as a major institutional locus for the historical and contemporary construction of gender relations.

**PED 491 Field Experience.** (8 or 12) F,S.

Prerequisite: permission of subject matter professor and application on file in HPER office. Supervised experience in a cooperative program with business, government, community or related establishments within any of the specialized areas in Health and Physical Education. In addition to agency involvement, the student is (1) required to attend a beginning orientation and follow-up seminar, and (2) complete assigned academic work appropriate to subject matter specialization. Credit will be based upon the length of the field experience period.

**PED 499 Special Problems.** 1-5, F,S.

Prerequisite: permission of department head. Investigation of a problem within physical education, leisure services, dance, safety education, or coaching as assigned by members of the departmental faculty. This course may be repeated up to a maximum of 5 hours of credit.

*The following courses are open only to graduate students.*

**PED 605 Applied Statistics in Health, Physical Education, and Recreation.** 3(3-0) F, S.

Prerequisite: HLH 600 or SFR 690 or permission of instructor. Applications of descriptive and inferential statistics to research problems in Health, Physical Education, and Recreation.

**PED 633 Current Problems in Sports Administration.** 3(3-0) F, S.  
Identification, analysis, and evaluation of current problems, research and trends in sports administration.

**PED 635 Administration of School Physical Education and Athletic Programs.** 3(3-0) D.

Financial and legal aspects, personnel management, program development, public relations, and evaluation as they apply to physical education and athletics.

**PED 637 Curriculum Designs in Physical Education.** 3(3-0) F, S.  
A comprehensive inquiry of the principles underlying the curriculum of physical education in grades K-12. An in-depth analysis will be given to the problems in development and evaluation of physical education curriculum.

**PED 639 Principles of Sports Management.** 3(3-0) F.

Introduction to theories and principles of sports management as applied to all segments of the sports industry from high school, collegiate, professional and international sports, to health, fitness and recreational settings.

**PED 655 Fitness as Preventive Medicine.** 3(3-0) D.

Prerequisite: PED 362 or permission of instructor. Development and implementation of scientifically-based fitness programs as vehicles of preventative medicine.

**PED 659 Contemporary Health Problems.** 3(3-0) D.

In-depth consideration of relevant pertinent health issues, trends, controversy, and current research in Health Education.

**PED 660 Applied Biomechanics of Human Movement.** 3(2-2) D.

Prerequisite: PED 360 or equivalent. Biomechanical principles applied to the analysis of human motion and performance. Techniques of cinematography, computerized motion analysis and other methods of analysis will be used.

**PED 662 Applied Exercise Physiology.** 3(2-2) D.

Prerequisite: PED 362 or equivalent. A study of the mechanisms underlying the body's physiological responses and adaptations to exercise and training. Application is made to health-related concerns, environmental stress, exercise practices, and the aging process.

**PED 680 Legal Aspects in Sports, Physical Education, and Wellness Programs.** 3(3-0) F.

The legal aspects in sports, physical education, recreation and wellness programs as related to personnel, facilities, participants, spectators and contracts. Includes a review of legal concepts, necessary for in-depth study of the law, as it relates to sports, or other programmed activities.

**PED 681 Contemporary Issues in Physical Education.** 3(3-0) F,S. Exploration of basic issues and trends in physical education using a philosophical approach to contemporary American education. Individual problem solving will assist the student in identifying, analyzing and evaluating recent developments and basic issues in physical education and sport.

**PED 695 Research Project.** 3(3-0) D.

Prerequisite: HLH 600 or SFR 690 a statistics course and permission of graduate coordinator. Original research supervised by the departmental staff. Designed to enable students through first hand experience to understand the various parts of research papers, methods of gathering data, appropriate statistical tests, interpretation of findings and implications for further study.

**PED 697 (690) Graduate Seminar.** 1-3, D.

Prerequisite: 12 hours of graduate credit or permission of instructor. Selected topics in health, physical education, and recreation. Topics may vary from semester to semester. May be repeated for credit when topic varies. A total of 6 hours may be applied to a degree program.

**PED 698 Field Experience in Sports Management.** 6, D.

Prerequisite: completion of the application process for the field experience and 12 credits in the certificate program. The Field Experience is the culminating experience for all students in the certificate program. The field experience provides students the opportunity to become directly involved in the application of organizational and sport management skills in sport related venues. Possible sites include: professional or club sports teams, university athletic departments, sports sales, sports agencies, professional and university sports facilities. Selection is dependent on the students' background and career expectations. All required courses must be completed in order to be eligible. The field experience can be completed during the fall, spring, or summer and requires at least 400 hours. All field experiences must be approved by the internship coordinator.

**PED 699. Thesis.** 6, D.

Prerequisite: HLH 600 or SFR 690, a statistics course and permission of graduate coordinator. of graduate coordinator Independent research and study connected with the preparation of a thesis.

## Radiography Courses

*The following courses are specifically designed to provide the basis for professional training in Radiography. They are taught by the staff of the School of Radiologic Technology of Cox Health Systems or St. John's Regional Health Center as part of their degree program. Enrollment in any of these courses is contingent on acceptance of the student by the School of Radiologic Technology. The emphasis in all cases is towards applicability to Radiography. These courses are credited only on the Bachelor of Science degree in Radiography.*

**RAD 110 Introduction to Radiologic Technology.** 1(1-0).

An introduction to the field, orientation to hospital and school policies, history, and fundamentals of radiography, basic radiation protection, professional ethics, patient care, nursing procedures, and basic cardiac life support (CPR).

**RAD 120 Radiographic Anatomy.** 2(2-0).

An introduction to human anatomy with a detailed study of the structure of the human skeletal system with special emphasis on radiographic landmarks.

**RAD 130 Radiographic Procedures I.** 2(1-3).

Fundamentals of radiographic procedures and terminology. This course includes all routine positions and a discussion of the resulting radio-

graphic projections. Includes image analysis, lab demonstrations, practice, and lab evaluations.

**RAD 140 Medical Terminology.** 1(1-0).

A structural analysis of word roots, suffixes, and prefixes for terms pertinent to the medical field with an emphasis on radiologic technology.

**RAD 150 Radiologic Science I.** 3(2-2).

A study of the fundamentals of atomic theory, basic electricity and x-ray circuitry, construction of x-ray tubes, the production of x-radiation, and interactions of x-radiation with matter.

**RAD 160 Radiographic Procedures II.** 2(1-2).

Advanced procedures and positioning techniques with emphasis on trauma and special views of bony anatomy. Includes image analysis, lab demonstrations, practice, and lab evaluations.

**RAD 170 Image Processing.** 1(1-0).

A study of the equipment, materials, and procedures used to produce radiographic images to include quality control procedures and image analysis.

**RAD 180 Radiographic Imaging I.** 3(2-2).

A study of the formation of radiographic images to include a discussion of the image devices, exposure factors, and the geometric properties of the x-ray beam. Methods of improving image quality, reducing patient exposure to ionizing radiation, and image analysis are also included.

**RAD 190 Practicum I.** 7(1-12).

First-year student clinical training. Duties begin under the direct supervision of the Registered Technologists. This will involve duties performed by a practicing technologist including the following: routine radiography, tomography, fluoroscopy, digital imaging, portable radiography, trauma radiography, and surgical radiography. Also included is an extensive clinical competency and performance evaluation system.

**RAD 310 Radiologic Physiology.** 3(3-0).

Normal structure and function of human systems with emphasis on related radiographic examinations.

**RAD 315 Radiologic Pathology.** 2(2-0).

The study of human disease to include disease etiology, diagnosis, clinical interpretation and treatment.

**RAD 320 Radiographic Procedures III.** 2(1-2).

A comprehensive study of examinations utilizing contrast media to visualize various aspects of the digestive and urinary systems. Includes image analysis, lab demonstrations, practice, and lab evaluations.

**RAD 330 Radiographic Procedures IV.** 1(1-0).

A general overview of the examinations requiring special techniques and/or contrast agents. Special emphasis is placed on new modalities or procedures that may have replaced these examinations.

**RAD 340 Contrast Agents.** 1(1-0).

A general study of contrast agents and pharmacology, including types, uses, patient reactions, and emergency treatment for reactions. The basic techniques of venipuncture are included.

**RAD 350 Radiographic Science II.** 2(1-2).

An in-depth study of radiation biology to include the effects of ionizing radiation on living tissues, organs, and systems. Advanced study of radiation protection principles and regulations.

**RAD 360 Radiographic Imaging II.** 2(1-2).

A study of specialized imaging technologies to include fluoroscopy, digital imaging, tomography, and other modalities.

**RAD 370 Radiographic Procedures V.** 1(1-0).

An introduction to advanced procedures to include: interventional technology, computerized tomography, diagnostic medical sonography, nuclear medicine, radiation therapy, and magnetic resonance imaging. Includes resume and cover letter writing and the job interview process.

**RAD 380 Practicum II.** 8(1-14).

Second-year clinical training includes a continuation of first-year duties with increased responsibilities under supervision of Registered Technologists. Rotations will include but may not be limited to: interventional technology, cardiac cath lab, computed tomography, nuclear medicine, diagnostic medical sonography, radiation therapy, and magnetic resonance imaging.

## Recreation and Leisure Studies Courses

### **REC 152 Introduction to Leisure Services.** 3(3-0) F,S.

Implications of leisure values in society and the role that organizations, agencies, institutions and municipalities have played in the recreation movement. Theories, concepts, and philosophies of leisure in society. A survey of the career opportunities in the leisure service field.

### **REC 160 Outdoor Initiatives.** 1(1-0) D.

Prerequisite: permission of instructor. This course is designed to give the student an experiential exposure to the processes of facilitating individual and group outdoor initiatives. Students will be actively involved in a weekend course experience which includes individual and group activities, initiative games, trust building activities and low and high ropes activities. Concepts of dynamic group leadership, facilitation skills, group decision making and problem solving as well as personal development will be incorporated in the weekend experience.

### **REC 161 Basic Camping Skills.** 1(1-0) D.

Prerequisite: permission of instructor. This course is designed to provide the students with practical skills in camping. Basic campcraft skills such as toolcraft, firecraft, ropecraft, outdoor cooking, map and compass will be included with a minimum impact camping orientation. Skills will be taught with an emphasis on appropriately leading others in outdoor settings and with safety and risk management considered.

### **REC 190 Applied Social Recreation.** 3(2-2) F,S.

Applied approach to developing leadership skills in games, activities, contests and social recreation activities. Activity analysis as applied to expected outcomes, instructional techniques, age appropriateness, and activity leadership skills is emphasized.

### **REC 205 Leisure Services and Special Populations.** 3(3-0) F,S.

Prerequisite: declared RLS Major. Recommended: REC 152. Orientation to the broad implications of specialized clinical and community based recreation approaches to programs for special population groups. Specific consideration given to mental retardation, developmental disabilities, mental illness, physical disabilities, aging, juvenile and adult corrections.

### **REC 210 Camp Counseling.** 2(2-0) D.

Recommended: REC 152. Overview of the camping movement in America, the role of the counselor, and the personal development of the camper.

### **REC 211 Outdoor Pursuits.** 3(2-2) S.

Prerequisite: permission of instructor. To acquaint the student with a variety of outdoor pursuit activities. Skill development, environmental values and impact considerations of outdoor experiences will be emphasized. Field trips and a weekend educational outing required.

### **REC 235 Adaptive Recreation Techniques/Equipment.** 1(1-0) D.

Prerequisite: permission of instructor. The identification of techniques associated with the utilization of adapted and modified recreational and personal aids, appliances, and equipment utilized in leisure pursuits by individuals with physical impairments.

### **REC 301 The Role of Animals in Recreation.** 1(1-0) D.

In rural or urban, public or private settings, humans are attracted to domestic or wild animals as a recreation activity... keeping, observing, showing, breeding, harvesting, capturing, fighting, training, and riding. This is a seminar course that will offer the student an opportunity to make a critical survey of the "recreational role of animals" in society (for persons with or without disability) as well as its surrounding commercial recreation industry and technology. Intended for the mature learner.

### **REC 302 Ecotourism and Recreation.** 2(2-0) D.

Students will gain an appreciation for ecotourism as a recreation experience. They will gain an appreciation for ecotourism development and ecotourism attractions as important components of a tourism destination, as well as the concept of community tourism. The course will also connect ecotourism with the concept of sustainability. This is a course for mature students.

### **REC 303 Recreational Tourism Frontiers.** 2(2-0) D.

This is a seminar course that will offer the student an opportunity to make a critical survey of current trends and issues (some controversial) in the field of recreational tourism. Recreational trends such as health, sport, festivals, gambling, genealogy/reunions, incentive travel, adventure, contests/shows/meetings, heritage/nostalgia, tourism for the disabled, nature, arts, farm/home visits and more... seem to be on the cusp of popularity. Students will examine practices, resources, delivery systems, ethics, career development issues, literature, and research. This course is intended for the mature student.

### **REC 305 Meeting Planning.** 1(1-0) D.

This course presents concepts necessary for the meeting planner to successfully solicit/develop and manage conventions and special events, commonly participated in during leisure time. Techniques of delivery, planning, managing and assessing economic impact, as well as highlighting the role of the convention and visitors bureau as a catalyst for regional leisure economic development of business travel will be included. As an elective, this course is for the mature, serious student particularly in recreation, communications, marketing, and other fields. Though the course makes reference to the hotel industry, it is instead taught from the perspective of the meeting planner.

### **REC 311 Outdoor Education.** 3(3-0) F.

Prerequisite: REC 152. The scope, methods, and importance of using the outdoors as a teaching tool for both individual and group education settings. Field trip(s) required.

### **REC 315 Introduction to Private/Commercial Recreation.** 3(3-0) F.

Prerequisite: REC 152. Overview of the spectrum of private planning, delivery and assessment of goods and services in the private and commercial sector.

### **REC 320 Fundamentals of Tourism.** (Identical to GRY 310.) 3(3-0) F,S.

Prerequisite: 30 credit hours. Geographical and recreational elements of tourism and travel including social, economic, environmental and political factors. Career options will be identified. Students participate in tourism research projects. One field trip may be required. Team taught by Geography and Recreation and Leisure Studies faculty.

### **REC 325 Leisure Education.** 3(3-0) S.

Prerequisite: REC 205. This course is designed to identify and experientially implement the concept of leisure education and examine individual interview techniques, group process approaches, techniques, and strategies, and other appropriate materials facilitating the leisure education process.

### **REC 330 Leisure Research Applications.** 3(3-0) F,S.

Prerequisite: REC 152, one REC course in emphasis area, permission of program coordinator, a statistics course, and 30 credit hours. An overview of the purpose, basic procedures, research designs, and computer applications in leisure research. Familiarization with and interpretation of research literature in the field of leisure services.

### **REC 331 Statistical Applications in Leisure Service.** 3(3-0) S.

Prerequisite: REC 152 and REC 205 and 30 credit hours. Introduction to statistical applications most commonly used in leisure services research; analysis, interpretation and presentation of data related to leisure services; particularly measures of central tendency and dispersion, elementary probability, probability distributions, sampling, standard error, interval estimation, and hypothesis testing. This course cannot be credited toward a degree if a student has passed any of the following: AGR 330, ECO 308, MTH 340, PSY 200, QBA 237, SOC 302.

### **REC 335 (225) Practicum in Leisure Services.** 3(0-6) F,S,Su.

Prerequisite: REC 152, 190, 205, and a minimum of one REC course in emphasis area, and permission of program coordinator. A practical experience which the student can relate to classroom theory. Students are assigned to leisure-oriented agencies for exposure to structure, programming, and philosophy of the cooperating agency. Practicum experience must be a minimum of 100 hours. Students must report to the RLS office at least six (6) months prior to the semester the practicum is desired. May be repeated once for credit but each practicum must be in a different leisure service agency.

### **REC 390 Recreation Programming.** 3(3-0) F,S.

Prerequisite: REC 152 and REC 205 and 60 credit hours. Students will examine various program areas and various approaches to program determination; develop a ten step process for program planning, and gain experience in brochure and survey development.

### **REC 400 Therapeutic Recreation Foundations.** 3(3-0) F.

Prerequisite: REC 205, PED 250 or BMS 307 or concurrent enrollment. Acquaint students with history, philosophy, theories, principles, concepts, techniques, and skills in the provision of therapeutic recreation programs and services.

### **REC 401 Therapeutic Recreation Assessment/Evaluation, Intervention Techniques and Modalities.** 3(3-0) S.

Focuses on use of assessment, evaluation, and facilitation technique in the delivery of treatment program modalities commonly found in therapeutic recreation practice.

**REC 405 Camp Administration.** 2(2-0) D.

Prerequisite: REC 152. A study of the techniques and principles involved in the administration of modern camps.

**REC 410 Recreation Leadership/Supervision.** 3(3-0) F.

Prerequisite: REC 152 and 60 credit hours. A study of the processes, methods, and characteristics of leadership and supervision in the delivery of leisure services.

**REC 411 Principles of Outdoor Recreation.** 3(3-0) FE.

Prerequisite: REC 152, 205, and 60 credit hours. An analysis of the history, nature, and importance of the outdoor recreation field. An overall view of outdoor recreation philosophy based on legislation, theory, geographic factors, land use, and open space factors. Field trips may be required.

**IREC 420 Trends and Issues in Therapeutic Recreation.** 3(3-0) F.

Prerequisite: REC 401; and either PED 252 or BMS 308 or concurrent enrollment. Designed to focus on contemporary issues, trends, practices, and professional literature, media resources, and research related to the delivery of therapeutic recreation services.

**REC 422 Leisure Resource Management.** 3(3-0) F,S.

Prerequisite: admission to program, 90 credit hours, 9 REC hours in emphasis area, and permission of program coordinator. Elements of locating, planning, developing, maintaining, and financing various leisure resources. Study of management principles and responsibilities applicable to leisure settings.

**REC 423 Organization and Administration of Leisure Services.** 3(3-0) F,S.

Prerequisite: admission to program, 90 credit hours, 9 REC hours in emphasis area, and permission of program coordinator. This course is usually taken with REC 422. Presentation of administrative principles of leisure oriented agencies. Specific approaches to financing, personnel budgets, facility operation, policy development, departmental structure, public relations, legal aspects, and evaluation procedures are presented.

**REC 451 Outdoor Stewardship.** 3(1-4) D.

Prerequisite: permission of instructor; REC 211 or documented outdoor skills approved by instructor. This course emphasizes experiential teaching/learning using the Wilderness Education Association curriculum under field conditions which builds upon the student's prior outdoor study and experience. The result is a practical group experience in the outdoors spent enjoyably and safely with minimum harm to the environment. This environmental stewardship course stresses leadership, decision making, low impact camping, sound expedition behavior and environmental ethics. Field trips will be required.

**REC 490 Orientation to Internship.** 1(1-0) F,S.

Prerequisite: permission of instructor. Orientation to the internship experience, including the student application process, the agency application and contractual agreement, the expectations of the University, the responsibilities of the student and the agency, appropriate completion of logs, planned experiences, time summaries and assigned problems. Students planning to intern in the Spring semester should enroll in this course during the preceding Fall semester, and students planning to intern in the Summer and Fall semesters should enroll in this course during the preceding Spring semester.

**REC 491 Leisure Service Internship.** (8 or 12) F,S.

Prerequisite: all RLS required coursework, cumulative Missouri State GPA of at least 2.20, first-aid and CPR competency met and maintained current throughout internship, and permission of internship coordinator. Supervised field experience which provides the student with an opportunity to make the transition from the classroom to actual involvement in a leisure service agency. In addition to the 10 week (optional 15 week) involvement, students are required to (1) meet with the RLS intern coordinator during the preceding semester to secure an internship site and clarify internship responsibilities, (2) complete a notebook during the internship, and (3) attend a one-day seminar on campus during the final examination of the internship semester. Credit will be based on the length of the internship period.

**REC 495 Seminar in Leisure Services.** 1-3, D.

Prerequisite: permission of instructor. Study of various leisure services topics from contemporary and/or technical points of view. Students should check the current registration schedule to determine the topic.

The course may be repeated, provided the topic is different, to a maximum of 6 hours.

**REC 499 Special Problems.** 1-5, F,S.

Prerequisite: permission of program coordinator. Directed reading or special investigation of a particular problem within the field of leisure services and research projects under faculty supervision. The course may be repeated up to a maximum of 5 hours of credit.

## Respiratory Therapy Courses

*NOTE: The following courses are not offered at Missouri State University and are treated as transfer courses.*

**RTH 111 Fundamentals of Respiratory Therapy I.** 4 credits.

Topics in medical terminology, function of the respiratory system including: ventilatory mechanisms, gas transport in the blood and regulation of ventilation. Medical gas delivery devices will be considered with classroom knowledge being used to develop skills in the clinical setting.

**RTH 112 Fundamentals of Respiratory Therapy II.** 4 credits.

A continuation of fundamentals with major emphasis and topics of aerosols, humidity, equipment maintenance, IPPB therapy and asepsis techniques.

**RTH 113 Fundamentals of Respiratory Therapy III.** 4 credits.

Ventilatory insufficiency and failure, mechanical ventilation, and chest physio-therapy. Skills and techniques are developed in the clinical setting.

**RTH 311 Pulmonary Functions.** 2 credits.

Application of specialized diagnostic facilities including pulmonary function and blood gas analysis. Approach and application of fundamental skills are extended to primary intensive care facilities of the participating institution.

**RTH 313 Clinical Application of Acid-Base Balance.** 3 credits.

Prerequisite: RTH 311. Acid-Base Homeostasis is related to clinical therapeutics. Topics include expired gas analysis, hemodynamics, biomedical instrumentation of biostatistical analysis.

**RTH 350 Respiratory Therapy Pharmacology.** 2 credits.

Provides the student with the skills and knowledge for the safe usage of therapeutic drugs. An introduction to the general principles and mechanisms of drug actions, interactions, and toxicity of the use of therapeutic drugs.

**RTH 352 Pathology and Chest Disease.** 2 credits.

Physio-pathology of respiratory disease states as they relate to normal structure.

**RTH 360 Respiratory Therapy Practicum.** 3 credits.

Departmental responsibilities including principles and practices of planning, directing and evaluating a respiratory therapy department.

**RTH 361 Respiratory Physiology.** 2 credits.

In-depth study and analysis of ventilation, the response to chemical and gaseous agents and manifestation and diagnosis and treatment of pulmonary disease.

**RTH 370 Advanced Clinical Techniques.** 4 credits.

Prerequisite: permission of instructor. Selected topics in the use of biomedical electronic and health related equipment as applied to Respiratory Therapy.

**RTH 371 Cardiovascular Physiology.** 3 credits.

A course describing detailed anatomy and physiology of the cardiovascular system. Topics included are: neurogenic and histogenic homeostasis, shock, disease processes and diagnostic testing.

**RTH 380 Special Studies in Respiratory Therapy.** 4 credits.

Provides the student with the opportunity for advanced work in a specialty area on an individual basis.

**RTH 381 Clinical Practicum in Respiratory Care.** 3 credits.

Supervised practical application of various respiratory care procedures performed in clinical settings.

**RTH 382 Clinical Practicum in Respiratory Care.** 3 credits.

Prerequisite: RTH 381. Supervised practical application of various respiratory care procedures performed in clinical settings.

**RTH 383 Clinical Practicum in Respiratory Care.** 3 credits.

Prerequisite: RTH 382. Continuation of RTH 382.

## Department of Nursing

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Department Web Site: [www.missouristate.edu/nursing](http://www.missouristate.edu/nursing)

**Department Head:** Associate Professor Kathryn L. Hope, Ph.D.

**Associate Professors:** Susan N. Hinck, Ph.D.; Rose A. Utley, Ph.D.

**Assistant Professors:** Susan Sims-Giddens, Ed.D.; Deborah M. Highfill, Ph.D.

**Instructor:** Victoria H. Cuthbertson, M.S.; Elizabeth M. Fahey, M.S.N.; Caroline A. Helton, M.S.; Debra L. Savinske, M.N.; Patricia L. Webb, M.S.N.; M. Sue Yarbrough, M.S.

**Accreditation:** Commission on Collegiate Nursing Education (CCNE) – all programs.

### General Education Course

NUR 472 may be used to satisfy the Writing II requirement of the Basic Required Courses in General Education.

## Majors

### Nursing (Comprehensive)

#### Bachelor of Science in Nursing

The Department of Nursing offers a nursing program that leads to a Bachelor of Science in Nursing degree (BSN). Admission to this program is by application and selection as stated in the admission policies.

- A. General Education (see General Education section of catalog) Specific General Education Requirements: CFD 155(3); CHM 105(5) or 160(4) preferred; PSY 121(3); SOC 150(3)
- B. Major Requirements
  1. The following prerequisites must be completed before beginning the first nursing course: BIO 210(3); BMS 240(3); BMS 307(4) or PED 250(3); BMS 308(4) or PED 252(3)
  2. Upper Division Nursing: NUR 302(3), 303(3), 304(3), 308(2), 312(6), 322(8), 331(4), 342(4), 360(3), 416(2), 442(6), 472(3), 478(2), 482(6), 565(3)
  3. Select one or more courses from the following to equal three(3) credit hours: HCM 301(3), 303(3), 500(3), 501(3), 502(3), 504(3), NUR 475(3), NUR 499(1-6), NUR 515(3)
  4. Select one course in statistics from the following: SOC 302(3), PSY 200(3), MTH 340(3), ECO 308(3), QBA 237(3), AGR 330(3), REC 331(3) or PSY 527(3)
- C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

#### Admission to the Bachelor of Science in Nursing Program

Admission to the Bachelor of Science in Nursing Program (BSN) is competitive and selective, and not all who apply can be accommodated. Students will be admitted to the nursing program once a year for full-time study. Applications for admission to the program will be reviewed beginning February 1 in the year prior to Summer admission, and continue until the class is full.

Students are encouraged to meet with an advisor in the Department of Nursing prior to or upon entering the University to ensure the proper selection and sequencing of prerequisites for the BSN program. The decision to admit a student to the BSN program will be based on a holistic picture of the completed course work and values that are consistent with the conduct of the profession and the ANA Code of Ethics for Nurses (ANA, 2001).

#### Admission Policies

1. Admission to Missouri State University.
2. Completion of application to the BSN program to the Department of Nursing.
3. Submission of official transcripts of all college course work.
4. Completion of a minimum of 43 credit hours.
5. Completion of the Basic Required Courses for General Education, except Writing II (IDS/UHC 110; CSC/CIS 101 or CSC 111; COM 115; ENG 110; MTH 130 or higher; PED 100).

6. Completion of the specific General Education requirements listed in A above.
7. A minimum cumulative GPA of 2.75 in all attempted college course work.
8. Meet technical standards of the program in order to successfully undertake the course of study. These standards are available upon request from the program.
9. Submit evidence of current immunizations (MMR, tetanus, and a complete Hepatitis B series, and a PPD (or evidence of appropriate medical follow-up for PPD positive individuals).
10. Current infant, child, and adult CPR certification
11. All students must carry health insurance throughout the entire program. A comprehensive student group health and accident insurance policy is available through Missouri State.
12. Applicants who have previously attended a nursing school or another school of a health-related profession must have a letter submitted from the Dean or Head of that school that includes a statement regarding the student's standing at the previous school. Applicants who have been previously dismissed from a program or were not in good standing at the time of dismissal will not be considered for admission.
13. Applicants must demonstrate academic potential to successfully complete the program.

#### Additional Requirements of the Program

1. Students are expected to purchase uniforms and initial equipment before beginning nursing courses. A list of the items and their prices can be obtained from the Department.
2. Students are expected to provide their own transportation to clinical sites.
3. Students are required to pay course fees for each semester they are enrolled in clinical nursing courses. These fees are used to pay for student liability insurance, student evaluation throughout the program, NCLEX preparation, and laboratory and clinical supplies and equipment.
4. Students will be required to initiate and pay for any security checks and drug screenings required for clinical agencies, for application to take the NCLEX, and when applying for licensure with a State Board of Nursing.
5. Apply for criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit licensure as a registered nurse.

#### Retention, Progression, and Graduation Policies

- A. After admission into the Nursing major, the students must achieve the following for retention in the major.
  1. Achieve a grade of “C” or better in all nursing and supporting courses.
  2. Receive a “pass” in all clinical evaluations.
  3. Maintain a University cumulative GPA of 2.50 or higher.
  4. Maintain a cumulative GPA of 2.50 or higher in all nursing and supportive courses.
  5. Courses in the nursing major may not be taken more than twice.
  6. Credit for upper division nursing courses taken more than 8 years before the student's date of graduation may be disallowed by the Nursing Department.



7. Demonstrate acceptable levels of maturity, integrity, and behaviors and attitudes normally expected of professional nurses.
  8. Maintain current CPR certification, immunizations, annual PPD or appropriate medical follow-up for PPD positive individuals, and health insurance requirements.
  9. Maintain ability to meet technical standards of the program.
  10. Once admitted to the nursing major, students must maintain continuous enrollment in nursing courses and progression through the program.
- B. Students who fail to meet the retention criteria may be (a) placed on academic or clinical probation in the nursing major, or (b) dismissed from the nursing program. Students on academic probation must achieve a grade of "B" or higher in the next 9 hours of course work in nursing or supporting courses attempted. Students on clinical probation must receive a "Pass" in all remaining nursing clinical courses. Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission to the nursing major.
- C. A student's graduation from the Missouri State Bachelor of Science in Nursing program does not guarantee eligibility to take the NCLEX RN licensure exam. Eligibility requirements to take the RN licensure exam are determined by each State Board of Nursing. The Department encourages students to contact the Board of Nursing in the state they plan to apply for licensure prior to admission to the nursing program to determine that state's eligibility requirements for licensure. (See Chapter 335 RSMo, regulation 335.066 of the Missouri Nurse Practice Act, available at <http://pr.mo.gov>.)

### Readmission Policy

Students who have interrupted their progression in the nursing courses for one semester or more must apply for readmission to the Department of Nursing Admission, Promotion, and Graduation Committee. Applications for readmission will be reviewed on an individual basis and be based on prior success in the program, and potential for successful graduation from the program.

### Transfer Policy

Transfer students with prior nursing courses will be reviewed on an individual basis by evaluating course content and objectives.

## Nursing (Comprehensive) Bachelor of Science in Nursing (BSN Completion Program for Registered Nurses)

The Department of Nursing offers a Junior-Senior level nursing program leading to a Bachelor of Science in Nursing degree (BSN). Degree candidates must be registered nurse graduates of associate degree or diploma nursing programs. Admission to this program is by application and selection as stated in the admission policies.

- A. General Education (see General Education section of catalog) Specific General Education Requirements: SOC 150(3) and PSY 121(3)
- B. Major Requirements
  1. Lower Division Nursing: Thirty hours lower division transfer credit will be awarded toward the major requirements after successful completion of NUR 306 with grade of "C" or better. These hours will be credited only toward the BSN degree.
  2. Upper Division Nursing Requirements: NUR 306(3), 341(6), 342(4), 442(6), 472(3), 482(6), 565(3)
  3. Select one or more courses from the following to equal three (3) credit hours: HCM 301(3), 303(3), 504(3); MGT 341(3); NUR 500(3), 501(3), 502(3), 515(3), 499(1-6)
  4. Select one course in statistics from the following: SOC 302(3), PSY 200(3), MTH 340(3), ECO 308(3), QBA 237(3), AGR 330(3), REC 331(3) or PSY 527(3)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)  
A maximum of six hours in NUR 499 may be credited toward the degree.

### Admission Policies

1. Acceptance of application to the University by the Office of Admissions. (Note: Admission to the University does NOT automatically constitute acceptance for the professional program in nursing. The Department of Nursing's Admissions, Promotion and Graduation Committee will make recommendations on each application.)
2. Current licensure as a registered nurse in the State of Missouri.
3. Provide evidence of current malpractice liability insurance.
4. GPA of 2.50 or higher on a 4.00 scale, based on at least 30 hours of college work. Students with GPAs between 2.00 and 2.50 will be considered on an individual basis.
5. Two professional reference letters from an employer or nursing school instructor.
6. Provide evidence of current infant, child and adult CPR certification.
7. Provide evidence of immunization or vaccination for vaccine-preventable diseases and show documentation of current tuberculosis status.
8. An admission conference with a member of the Department of Nursing Faculty is recommended for direction in sequencing courses.

### Additional Requirements of the Program

1. Students will be required to initiate and pay for any security checks and drug screenings required for clinical agencies.
2. Apply for criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit licensure as a registered nurse.

### Readmission Policy

Continuing enrollment in Missouri State must be maintained to be considered a student in the BSN program. Students who interrupt their education for a year or more must follow University readmission policies and petition the Department of Nursing to be reinstated in the nursing program at which time the previous course work will be reevaluated.

### Retention, Progression and Graduation Policies

- A. After admission into the Nursing major, the students must achieve the following for retention in the major.
  1. Achieve a grade of "C" or better in all nursing and supporting courses.
  2. Receive a "pass" in all clinical evaluations.
  3. Maintain a University cumulative GPA of 2.50 or higher.
  4. Maintain a cumulative GPA of 2.50 or higher in all nursing and supportive courses.
  5. Courses in the nursing major may not be taken more than twice.
  6. Credit for upper division nursing courses taken more than 8 years before the student's date of graduation may be disallowed by the Nursing Department.
  7. Demonstrate acceptable levels of maturity, integrity, and behaviors and attitudes normally expected of professional nurses.
  8. Maintain current CPR certification, immunizations, annual PPD or appropriate medical follow-up for PPD positive individuals, and health insurance requirements.
- B. Students who fail to meet the retention criteria may be (a) placed on academic or clinical probation in the nursing major, or (b) dismissed from the nursing program. Students on academic probation must achieve a grade of "B" or higher in the next 9 hours of coursework in nursing or supporting courses attempted. Students on clinical probation must receive a "Pass" in all remaining nursing clinical courses. Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission to the nursing major.

Students should refer to the *BSN Student Handbook* for additional information on the policies and procedures in the Department of Nursing.

### Nursing Electives for Non-BSN Majors

NUR 199, 326, 327, 360, 472, 490, 492, 500, 501, 502, 510, 515, and 565 may be taken by students in other departments and as continuing education courses by non-degree seeking students.

## Minor

### Health Care Management

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Science in Nursing

- A. HCM 301 (3), 303 (3); HCM 504 (3) or ECO 504 (3); ECO 165 (3) or AGB 144 (4); MGT 345 (3) or PLS 356 (3)
- B. Six hours from ACC 201 (3); MGT 341 (3); MKT 350 (3); SOC 341 (3); NUR 515 (3) for a total of no fewer than 21 hours.

## Graduate Program

A Master of Science in Nursing degree is offered. See the Graduate Catalog for details.

### Accelerated Masters in Nursing

The Accelerated RN to Masters in Nursing Option is designed to enable academically outstanding registered nurses who have an associate degree or diploma in nursing to receive a baccalaureate and masters degree in nursing in less time than it would take to complete both degrees separately. If accepted to the accelerated option, students may earn graduate credit for up to 12 hours of specified 500-600 level courses and count these hours toward both degrees.

Students must apply to the Accelerated RN to MSN Option when they first apply for admission to the BSN completion program and prior to enrolling in nursing or supporting courses required in the BSN. Students may not enter the RN-MSN option after they begin taking courses for the BSN completion program. Upon acceptance to the RN-MSN option, students will be granted 30 hours of undergraduate credit from previous associate or diploma nursing courses. Students may then begin taking nursing courses, including courses that will count toward both degrees. Upon successful completion of the courses required for the BSN, all students will receive the BSN. Students who have met criteria for graduate study may be granted full admission to the graduate college and may complete the MSN. See Graduate Catalog for details.

## University Certificates

Graduate level certificate programs are available in Post-Master's Family Nurse Practitioner, and in Post-Master's Nurse Educator. See Graduate Catalog for details.

## Clinical Hours

Clinical and laboratory hours represent the number of hours per week the course will meet in clinical and laboratory experiences outside the classroom. In nursing, three clinical hours are required for one credit hour. For example, a four credit hour clinical course with two hours of lecture will have six hours of clinical experiences. Two laboratory hours are required for one credit hour. For example, a four credit hour laboratory course with two hours of lecture will have four hours of laboratory experience.

## Health Administration

Health Administration courses and a Master of Health Administration degree are offered in the Management Department. See the Management Department section of this catalog and the Graduate Catalog for details.

## Health Care Management Courses

### HCM 301 Health Care Organization. 3(3-0) D.

Analysis of organizational structure, the nature of health and health care delivery. Emphasizes the interrelatedness of cultural, economic, political, and social aspects of health care delivery along with its services and management.

### HCM 303 Health Care Legal Issues 3(3-0) D.

Introduction to the legal system as it relates to health care. Legal responsibilities and issues related to health care institutions, health provider/patient relationships, medical records, malpractice insur-

ance, licensure of health professionals, and ethical problems/questions in health care.

### HCM 497 Special Topics in Health Care Management. 1-3, D.

Prerequisite: administrative experience in health care system and/or permission. Variable content course to increase understanding and skills in relevant areas of health care systems administration. Topics to be chosen from current areas of interest. May be repeated up to 6 hours with different topic.

### HCM 504 Health Care Economics. 3(3-0) F. (Identical with ECO 504).

Prerequisite: ECO 165 or AGB 144. A basic study of the major economic issues facing the health care industry. Emphasis will be placed on the major elements of economic theory from a micro-economic perspective and how these theories are applied in the area of health care. May not receive credit for both HCM 504 and ECO 504.

## Nursing Courses

### NUR 199 Health Topics. 1-3, F,S.

Topics of general interest in health care system, and the health professions. Topics may vary each semester; the course may be taken to a maximum of 10 hours provided the same topic is not repeated. Variable Content Course.

### NUR 300 Nursing Transition. 2(1-2) F.

Prerequisite: graduate of a practical nurse program approved by a U.S. state board of nursing. Content relevant to the transition from the practical nurse role to the professional registered nurse role.

### NUR 302 Concepts in Nursing. 3(3-0) Su.

Prerequisite: admission to the Nursing major or departmental permission. Introduction to nursing process, theory, and concepts relevant to professional nursing.

### NUR 303 Skills and Technology for Nursing I. 3(2-3) F,Su.

Prerequisite: NUR 302 or concurrent enrollment and departmental permission. Introduction to basic skills and technology used in professional nursing. Includes clinical experience of not less than 48 hours. Course Fee.

### NUR 304 Skills and Technology for Nursing II. 3(2-3) F,S.

Prerequisite: NUR 303. Introduction to complex skills and technology used in professional nursing. Includes clinical experience of not less than 48 hours. Course Fee.

### NUR 306 Professional Emergence. 3(3-0) F,S.

Prerequisite: registered nurse. Enhancement of nurses' ability to function as professionals. Survey of past, current, and developing trends in nursing and health care delivery, including historical, socio-cultural, legal and ethical dimensions in nursing practice.

### NUR 308 Nursing: The Healthy Individual. 2(2-0) F,S.

Prerequisite: NUR 304 or concurrent enrollment. Focus on health promotion and disease prevention for individuals across the life span in diverse settings.

### NUR 310 Contemporary Problems in Medical-Surgical Nursing. 1-6 D.

Prerequisite: permission. Variable content course dealing with special problems related to nursing of persons with medical surgical problems. Specific subjects vary each semester depending on the interest of the faculty and students. Only 6 hours within the Contemporary Problems Series will count as electives toward the BSN degree.

### NUR 312 Nursing: The Adult Client. 6(4-6) F,S.

Prerequisite: NUR 308, NUR 342, NUR 360, NUR 565. Professional nursing care of adult clients experiencing acute and chronic illness. Includes clinical experience of not less than 96 hours. Course Fee.

### NUR 320 Contemporary Problems in Maternal-Child Health. 1-6 D.

Prerequisite: permission. Variable content course dealing with special problems related to nursing care of parents and their children. Specific subjects vary each semester depending on the interest of faculty and students. Only 6 hours within the Contemporary Problems Series will count as electives toward the BSN degree.

### NUR 322 Nursing: The Childbearing and Childrearing Family. 8(6-6) F,S.

Prerequisite: NUR 308, NUR 342, NUR 360, NUR 565. Professional nursing care of childbearing and childrearing families in diverse settings. Includes clinical experience of not less than 96 hours. Course Fee.



**NUR 326 Current Issues in Children's Health and Safety.** 1(1-0) D. Variable content course dealing with issues relative to the health and safety of children. Methods to reduce morbidity and mortality rates are included. Content appropriate for non-nursing majors. This course may not be used to meet the nursing elective requirement.

**NUR 327 Issues in Women's Health.** 1(1-0) D.

Variable content course dealing with issues concerning women's health. Content is appropriate for non-nursing majors. This course may not be used to meet the nursing elective requirement.

**NUR 330 Contemporary Problems in Psychiatric Nursing.** 1-6 D. Prerequisite: permission. Variable content course dealing with special problems related to nursing care of persons with psychological disturbances. Specific subjects vary each semester depending on the interest of the faculty and students. Only 6 hours within the Contemporary Problems Series will count as electives toward the BSN degree.

**NUR 331 Nursing: The Mental Health Client.** 4(3-3) F,S.

Prerequisite: NUR 308, NUR 342, NUR 360, NUR 565. Professional nursing care of mental health clients in diverse settings. Includes clinical experience of not less than 48 hours. Course Fee.

**NUR 340 Contemporary Problems in Community Health Nursing.** 1-6 D.

Prerequisite: permission. Variable content course dealing with special problems related to nursing care in the community. Specific subjects vary each semester depending on the interest of the faculty and students. Only 6 hours within the Contemporary Problems Series will count as electives toward the BSN degree.

**NUR 341 Nursing: Individuals and Families.** 6(4-6) F,S.

Prerequisite: RN, admission to the nursing program, NUR 306 and 342 or concurrent enrollments and permission. Application of nursing theory and nursing process in the health care of individuals and families. Includes clinical experiences of not less than 96 hours.

**NUR 342 Nursing: Health Assessment.** 4(3-2) F,S.

Prerequisite: NUR 303 (for four-year BSN students only). Acquisition and utilization of skills in health history interviewing and physical assessment of clients throughout the life span. Course Fee.

**NUR 350 Contemporary Problems in Nursing Administration.** 1-6 D.

Prerequisite: permission. Variable content course dealing with special problems related to administration and leadership in nursing. Specific subjects vary each semester depending on the interest of the faculty and students. Only 6 hours within the Contemporary Problems Series will count as electives toward the BSN degree.

**NUR 360 Introduction to Pharmacology.** 3(3-0) F,S.

Prerequisite: BMS 307 and BMS 308 or PED 250 and PED 252 or equivalent, and departmental permission. Introduction to basic pharmacology, pharmacokinetics and pharmacodynamics of major drug classifications.

**NUR 363 Human Pathobiology.** 1-4 D.

Prerequisite: courses in anatomy and physiology or permission. Topics concerning anatomical, physiological, pharmacological and genetic aspects of disease. Designed for students and professionals in the health sciences. May be repeated for a total of 6 hours in a degree program. Variable Content Course.

**NUR 412 Nursing: Individuals with Complex Health Need.** 6(3-9) D.

Prerequisite: NUR 322, 472. Development of nursing systems to meet nursing needs of clients with complex or multiple health deviations.

**NUR 416 Nursing: The Older Adult Client.** 2(2-0) F,S.

Prerequisite: NUR 308, NUR 342, NUR 360, NUR 312 or concurrent enrollment. Professional nursing care of older adults in diverse settings.

**NUR 442 (342) Nursing: Community Health.** 6(4-6) F,S.

Prerequisite: NUR 341 (for BSN completion students); NUR 342, NUR 565; NUR 472 or concurrent enrollment. Theory and clinical experience in nursing practice to aggregates and communities. Focus on nursing knowledge and skills in community health nursing and nursing research to promote health and prevent disease. Includes clinical experiences of not less than 96 hours. Course Fee.

**NUR 472 Writing II: Nursing Research and Scholarly Writing.** 3(3-0) F,S.

Prerequisite: ENG 110 or satisfactory score on the writing diagnostic exam; statistics (AGR 330, ECO 308, MTH 340, PSY 200, PSY 527, PSY 611, QBA 237, REC 331, SOC 302 or equivalent) or concurrent enrollment; and 45

hours. This course will prepare the student to write in a variety of styles, in addition to reading, interpreting, and evaluating nursing research. The student will acquire an understanding of the research process, apply relevant research to health and human service disciplines, and demonstrate the accurate dissemination of research results in verbal and written format. This course will assist students to develop an attitude of inquiry, expand logical thinking, and enhance analytical skills.

**NUR 475 Nursing Internship.** 3-6 F,S,Su.

Prerequisite: department permission. This clinical course fosters the development of nursing roles, clinical nursing skills, communication, therapeutic nursing interventions, and critical thinking in approved health care agencies in the community. This nursing elective course is for variable credit and may be repeated. Graded Pass/Not Pass only.

**NUR 478 Nursing: Senior Seminar.** 2(2-0) F,S.

Prerequisite: NUR 312, NUR 442, NUR 472; NUR 482 or concurrent enrollment; and departmental permission. Exploration of issues and policies affecting nursing as a profession. Also includes preparation for licensure.

**NUR 482 Nursing: Leadership and Management.** 6(4-6) F,S.

Prerequisite: NUR 442 and departmental permission. Development of the nurse as a leader and manager in diverse settings. Includes clinical experience of not less than 96 hours. Course Fee.

**NUR 490 Emergency Care.** 3(3-0) F,S.

Prerequisite: anatomy, physiology, and permission of instructor. An overview of physiological, psychological, social, cultural, legal and ethical factors that influence the health of persons with emergency health care needs. Emphasis will be placed on (a) roles and responsibilities for emergency care providers, (b) principles of emergency and mass casualty care, (c) emergency assessment of persons experiencing medical or traumatic emergencies, (d) prioritizing health care needs and interventions, and (e) evaluating effectiveness of interventions for clients throughout the lifespan. Content appropriate for nurses and other health care providers.

**NUR 492 Basic EKG Interpretation.** 1(1-0) Su.

Prerequisite: anatomy, physiology, and permission of instructor. This course introduces a systematic method of assessing single lead EKG's. The course includes analysis and treatment of sinus rhythms, conduction blocks, atrial, junctional and ventricular dysrhythmias. Content appropriate for nurses and other health care professions.

**NUR 499 (399) Special Topics in Nursing.** 1-6 F,S.

Prerequisite: permission. Independent study in area of special interest. May be taken up to maximum of 6 hours.

**NUR 500 (HCM) The Professional Role: Case Management.** 3(3-0) F,S.

Prerequisite: junior standing and permission of instructor. This course is designed to aid the student in understanding and knowing how to work within the changing health care systems. The course will examine the complex factors that impact health care and its clients through a case management perspective. Models within this perspective will be explored. This course has a community experience component.

**NUR 501 (HCM) Gerontological Health Care.** 3(3-0) F,S.

Prerequisite: junior standing and permission of instructor. This course will address health issues of older adults, including the normal biological and psychosocial aging process, common health problems, and access to and use of health services. It includes international models of aging and geriatric care. The focus is on healthy aging and adaptation to chronic health conditions. This course has a community experience component.

**NUR 502 (HCM) Rural Health.** 3(3-0) F,S. (Identical with SWK 502)

Prerequisite: junior standing and permission of instructor. This course offers a study of health care delivery in rural communities. It includes theoretical foundations, cultural considerations, and specific characteristics of rural environments and people. Local and international perspectives will be explored. This course has a community experience component. Cannot receive credit for both NUR 502 and SWK 502.

**NUR 515 Healthcare Informatics.** 3(3-0) F,S,Su.

Integration of health, computer and information sciences in managing information to support healthcare and research. Development of skill in managing information and using information systems relevant to health care.

**NUR 565 (465) Advanced Human Pathophysiology.** 3(3-0) F,S.

Prerequisite: introductory biology course and physiology course, or concurrent enrollment. Exploration of pathophysiology with focus on health care problems relevant to nursing.

**NUR 596 Independent Study in Nursing.** (1-6) F,S,Su.

Prerequisite: permission of instructor. Special topics for individual students may be offered as specific topics of interest or as needs arise which are not covered by courses or content in the program. May be repeated for credit for a maximum of 6 credit hours as topics change.

**NUR 597 Special Topics in Nursing.** (1-3) F,S,Su.

Prerequisite: permission of instructor. Special topics for groups of students may be offered as specific topics of interest or as needs arise which are not covered by courses or content in the program. May be repeated for credit for a maximum of 6 credit hours as topics change.

**The following courses are open only to graduate students.****NUR 600 Epidemiology.** 3(3-0) F,S. (Identical with HLH 620).

This course is an introduction to the epidemiological methods and procedures utilized in the study of the origin, distribution, and control of disease. It will include the study of infectious and non-infectious disease etiology, including vector control, host defenses and resistance, and investigation of disease outbreaks. Students will learn to use basic epidemiological concepts and methods for program planning, evaluation, and research. Basic statistical measures used in the analysis of clinical and epidemiological evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered. Students may not receive credit for HLH 620 and NUR 600.

**NUR 601 Nursing Science.** 3(3-0) F.

Prerequisite: NUR 515 or concurrent enrollment; and departmental permission. This course is designed to address how nursing science has evolved and the state of the art of nursing science. Emphasis will be placed on analysis and critique of existing nursing models and theories.

**NUR 607 Advanced Health Assessment and Health Promotion.** 5(3-6) F,Su.

Prerequisite: departmental permission. Exploration of advanced health assessment and health promotion strategies. Includes clinical and laboratory experiences of not less than 96 hours.

**NUR 610 Nursing Case Management.** 3(3-0) D.

Prerequisite: admission to the graduate program in nursing. Emphasis on designing delivery systems; participating in policy development; assessing, diagnosing, and planning nursing needs of a particular patient population; and evaluating patient outcomes and effectiveness of the health care delivery system.

**NUR 611 Advanced Roles and Leadership in Nursing.** 2(2-0) F.

Prerequisite: departmental permission. Examination of advanced nursing roles with emphasis on role theory, leadership, and advanced competencies.

**NUR 615 Primary Care of the Adult.** 6(4-6) S.

Prerequisite: admission to the Family Nurse Practitioner program; NUR 607, NUR 611, NUR 661; NUR 665 or concurrent enrollment or departmental permission. Emphasis on primary, secondary and tertiary prevention as well as on diagnosis and management of health problems. Includes clinical experiences of not less than 96 hours.

**NUR 620 Clinical Concepts in Nursing.** 4(3-3) S.

Analysis of theories of health and illness with emphasis on the research basis of selected nursing interventions. Includes clinical experience of 48 hours.

**NUR 625 Primary Care of Women.** 4(2-6) F.

Prerequisite: admission to the Family Nurse Practitioner program, NUR 607, NUR 661 or concurrent enrollment, and departmental permission. Development of the family nurse practitioner's knowledge and skills with emphasis on women's health. Includes clinical experiences of not less than 96 hours.

**NUR 628 Primary Care of Children and Adolescents.** 4(2-6) S,Su.

Prerequisite: admission to the Family Nurse Practitioner program, NUR 607, NUR 661 or concurrent enrollment, and departmental permission. Content and practicum in primary care of children and adolescents. Includes clinical experiences of not less than 96 hours.

**NUR 661 Advanced Pharmacotherapeutics.** 3(3-0) F. (Identical with PAS 681).

Prerequisite: completion of PAS 680, or RN or permission. In-depth analysis of pharmacotherapeutics and the application of drugs for the diagnosis, treatment and prevention of disease. Emphasis will be placed on the rational use of drugs in the care and treatment of pediatric, adult

and geriatric patients in primary care settings. Will include discussion of treatment guidelines, indications, contra indications, prescription writing, drug law, drug information resources and case studies.

**NUR 665 Applications of Advanced Pathophysiology.** 1(0-2) F,S.

Prerequisite: NUR 565 or concurrent enrollment or departmental permission. Clinical application of advanced pathophysiology for advanced nursing roles.

**NUR 672 Advanced Research Methods in Nursing.** 3(3-0) S.

Prerequisite: graduate statistics, and NUR 601. Critical analysis of the researcher role, the research process, and research ethics within a nursing framework. Application of learned principles will result in the development of the research proposal.

**NUR 680 Teaching/Learning for Health Care Educators.** 3(3-0) F,S.

Prerequisite: admission to the graduate program in nursing or departmental permission. Designed to examine works of major learning theorists and investigate research related to teaching methods and learning. Identification of teaching/learning strategies used in health care education and practice.

**NUR 681 Nursing Education Practicum.** 2(0-6) F,S.

Prerequisite: admission to the Nurse Educator program; NUR 680 or concurrent enrollment. Clinical experience in a nurse educator role in a basic education program. Application of educational theories and principles in a clinical teaching setting. Includes clinical experiences of not less than 96 hours.

**NUR 682 Curriculum Design and Program Development.** 3(3-0) F,S.

Prerequisite: NUR 680 or departmental permission. Basic components and processes of curriculum development. Various perspectives of curriculum design will be discussed. Curriculums for formal educational programs, staff development, and continuing education will be compared.

**NUR 683 Nursing Education Practicum II.** 2(0-6) F,S.

Prerequisite: NUR 682 or concurrent enrollment or departmental permission. Clinical experience in a nurse educator role in a healthcare or community setting with emphasis on application of educational theories and principles. Includes clinical experiences of not less than 96 hours.

**NUR 686 Issues in Healthcare Education.** 2(2-0) D.

Prerequisite: departmental permission. Exploration of current issues in academic and healthcare education. Issues occurring in the university, community college, acute care, and community education settings will be included.

**NUR 688 Health Policies and Issues.** 3(3-0) F,S.

Prerequisite: NUR 672 or departmental permission. Exploration of current issues in health care, such as access to health care, reimbursement, health care reform, case management, and health policy development. Health care trends related to special populations and ethical issues will be emphasized.

**NUR 690 Family Nurse Practitioner Advanced Practicum.** 5(0-15) F,S,Su.

Prerequisite: NUR 672 and all Family Nurse Practitioner role specialization courses or departmental permission. Development of the role of a family nurse practitioner in a supervised setting. Included clinical experiences of not less than 240 hours.

**NUR 697 Non-thesis Project.** 1-3 F,S,Su.

Prerequisite: NUR 672 and permission of project advisor. Active participation in the on-going research and/or nursing evaluation activities of nursing faculty. Culminates in a presentation of an extensive scholarly paper.

**NUR 698 Research.** 1-6 F,S.

Prerequisite: permission or research advisor. Application of the research process in the supervised study of a selected problem. May be repeated for a maximum of 6 hours.

**NUR 699 Thesis.** 1-6 F,S,Su.

Prerequisite: NUR 672 and permission of research advisor. Demonstration of the capacity for research and independent thought culminating in a thesis.

## Department of Physical Therapy

204 Physical Therapy Building, Phone: 836-6179, FAX: 836-6229

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Department Web Site: www.missouristate.edu/physicaltherapy/

**Acting Department Head:** Professor Loretta M. Knutson, Ph.D., PT, PCS

**Professor:** Mark J. Horacek, Ph.D., MS, PT

**Associate Professors:** Sean C. Newton, Ph.D., PT; Barbara S. Robinson, DPT; Scott Wallentine, DPT

**Director of Clinical Education:** Jeanne L. Cook, MSPT

**Instructor:** Patricia A. Cahoj, MS, PT

**Director of Physical Therapy Clinic:** Michael V. Halliday, MSPT

**Accreditation:** Commission on Accreditation of Physical Therapy Education (CAPTE) – Physical Therapy, M.P.T.

### Graduate Program

A Master of Physical Therapy degree is offered. See the Graduate Catalog for details.

### Physical Therapy Courses

*The following courses are open only to graduate students.*

**PTE 607 Medical Human Anatomy** 6(3-10) F. (Identical with BMS 607)

Prerequisite: admission to the program or permission. This course offers an in-depth coverage of basic, applied, and clinical aspects of gross anatomy. Students observe, discuss, teach, learn, and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students in laboratory teaching sessions, and assignments that rely on critical thinking. Students make oral presentations and use the library and other sources of information (such as the Internet and our computer laboratory) to learn and teach applied gross anatomy.

**PTE 610 Introduction to Physical Therapy.** 3(2-4) F.

Prerequisite: admission to the program. This course is closely integrated with *Professional Issues I*. It provides an overview of physical therapy, including the history of physical therapy and the APTA, and the physical therapist's professional responsibilities. This information is combined with the acquisition of skills and knowledge necessary to be successful in managing patients. The topics that are discussed in *Professional Issues I*, e.g., *Standards of Practice for Physical Therapy*, *Guidelines for Physical Therapy Documentation*, and *Guidelines for Professional Conduct*, are "transformed" into practical skills that are necessary to professionally interact with patients. Hence this course combines these concepts with the skills necessary to provide patient care. These skills include the assessment of vital signs, basic measurement techniques, examination of the body, ensuring patient safety, infection control, using proper body mechanics, using appropriate transfers, gait training, and basic documentation, and patient and family education.

**PTE 611 Professional Issues I.** 2(1-3) F.

Prerequisite: admission to the program. This course provides an overview of physical therapy and the physical therapist's professional responsibilities. Information regarding the *Standards of Practice for Physical Therapy*, the *Guidelines for Physical Therapy Documentation*, and the *Guide for Professional Conduct* are essential components of this course. This course focuses on the psychological and social aspects of communication in health care and providing care and services to patients. This includes patients' rights, the psychological impact of illness, social considerations such as gender, race, culture and ethnicity. These concepts are integrated using case studies of various patient-therapist situations.

**PTE 612 Biomechanics and Kinesiology.** 5(4-3) F.

Prerequisite: admission to the program. This course provides the basis for understanding human movement. This encompasses functional anatomy, forces applied to, and by, the body, and the mechanics of human movement, including its quantitative assessment. Angular and linear kinetics and kinematics are studied and applied to patient management. Interactions among the skeletal, muscular, and neural

systems of the body are emphasized as they relate to understanding normal and abnormal human movement.

**PTE 613 Human Development and the Life Cycle.** 1(1-0) F.

Prerequisite: admission to the program or permission. This course describes the major features of embryology, maturation of the fetus, changes that occur during pregnancy, childbirth, the neonatal period, childhood, adolescence, adulthood and aging. The course stresses an integrated approach to understanding all of these periods of life as a cycle of events, each with its unique challenges to the health care professional.

**PTE 614 Imaging Analysis in Physical Therapy Practice.** 2(2-1) F.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course emphasizes the analysis and interpretation of diagnostic images of patients with a variety of impairments or dysfunctions of the musculoskeletal, cardiopulmonary, nervous, and circulatory systems as they apply to contemporary physical therapy practice. Various imaging techniques will be incorporated into case studies which will be used to emphasize incorporation of image findings into the process of patient management.

**PTE 620 Neuroanatomy - Neuroscience.** 4(3-2) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes the gross anatomy and applied function of the central and peripheral nervous systems. Normal anatomy and function is compared and contrasted with abnormal anatomy and function due to disease or injury.

**PTE 621 Professional Issues II.** 2(0-4) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on employment settings, legal issues regarding Physical Therapist Assistants, the structure of the American Physical Therapy Association, regulations, policies, practice acts, federal legislation, and direct access to patients. Additionally, this course focuses on the legal aspects of professional life including basic elements of contract law, criminal law, educational law, employment law, insurance law, and business law. Students continue to develop an individual Clinical Internship Plan with specific goals and objectives and select clinical sites for Clinical Internship I - IV.

**PTE 622 Physical Agent and Mechanical Modalities.** 2(2-2) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes thermal modalities (diathermy, therapeutic heat and cold, therapeutic ultrasound, low-power lasers, ultraviolet therapy) and mechanical modalities (spinal traction, intermittent compression devices, continuous passive movement devices, therapeutic soft tissue mobilization, and massage). In addition, the underlying scientific principles and clinical uses of physical agents and mechanical modalities are described.

**PTE 623 Patient Management: Musculoskeletal I.** 4(2-6) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course emphasizes the management of patients suffering from musculoskeletal dysfunctions of the appendicular skeleton. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. The joints of the limbs are the central themes around which the cases are built. General and specific examination and treatment techniques are

included, stressing the integration of knowledge and skills. Treatment techniques include (but are not limited to) the use of soft tissue mobilization, myofascial release, therapeutic exercise, and basic joint mobilization.

**PTE 630 Motor Control/Motor Learning.** 3(2-2) Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course builds on, and extends, the information covered in Neuroanatomy - Neuroscience. It focuses on motor control systems and on the structure and function of the major components of the brain. The content is presented so that neurological lesions are understood based on an understanding of anatomical location and function. Case studies are used to introduce clinical reasoning based on fundamental knowledge in neuroanatomy and neuroscience.

**PTE 631 (675) Pathophysiology/Differential Diagnosis I.** 3(2-2) Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers pathological conditions and their implications for Physical Therapists. All major systems of the body are studied. The pathophysiological portion of the course integrates the knowledge acquired in physiology with abnormal physiology caused by pathology. Case studies are used to integrate concepts in patient management related to pathology and pathophysiology.

**PTE 632 Electrotherapeutic Modalities and Clinical Electrophysiology.** 2(2-5) Su.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course describes electrotherapeutic modalities and clinical electrophysiologic testing. In addition, the underlying scientific principles and clinical uses and application of electrotherapeutic modalities and clinical electrophysiologic testing are incorporated. Major topics in this course include: electrical stimulation of muscle, electrical stimulation to control posture and movement (FES/NMES), electrical stimulation to control pain, electrical stimulation to promote tissue healing, iontophoresis, electroneuromyography, EMG, NCV, and biofeedback.

**PTE 633 Patient Management: Musculoskeletal II.** 4(3-6) Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course builds on the knowledge and skills acquired in *Patient Management: Musculoskeletal I*. It focuses on management of the axial skeleton and all of the joints associated therewith. Sophisticated examination and manual mobilization techniques are covered in detail.

**PTE 637 Clinical Internship I.** 4, Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides an introduction to the clinical education component of the MPT curriculum, as well as a four week, full-time clinical internship. Learning styles will be discussed, as well as how clinically-based learning may differ from classroom or laboratory experiences. Students will continue to develop their clinical internship plan and specific goals and objectives for this Clinical Internship. Students will complete a case study or present an "in-service" while on the four week internship write a short, reflective paper, and meet the requirements established by the program and the clinical facility.

**PTE 640 Research Methods and Design.** 2(1-2) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course examines the importance of research, the methods used to conduct research of various types, and the models that are available for designing appropriate research projects. Quantitative and qualitative research is covered in detail, as well as the use of functional outcome measurements to improve patient care and document treatment efficiency and effectiveness.

**PTE 641 (651) Pathophysiology/Differential Diagnosis II.** 3(2-3) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on Internal Medicine from the perspective of implications for physical therapists. A significant component of the course will focus on signs and symptoms, disease

recognition, associated surgical procedures, and on the affects of disease with regard to producing functional limitations and disabilities. This course covers muscular, skeletal, neurological, cardiovascular, pulmonary, hematologic, gastrointestinal, renal, urological, hepatic, and endocrine diseases. Case students are incorporated to emphasize patient management. Common medical instrumentation used in skilled patient management, the basic medical procedures associated with this instrumentation, and the application of this information to patient management in physical therapy is integrated where appropriate.

**PTE 643 Patient Management: Neurological I.** 4(2-6) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers neurological disabilities that primarily affect infants, children, and adolescents. Case studies and laboratory experiences are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills. Treatment approaches include theoretical models, and task-oriented models. Therapeutic exercise, modalities, and other treatment skills are presented and included in case studies. Functional outcome measures are incorporated, as well as patient management in the home.

**PTE 644 Patient Management: Cardiovascular and Pulmonary Problems.** 3(2-3) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course presents an overview of cardiac, vascular, and pulmonary physical therapy. It integrates foundational information such as anatomy, physiology, exercise physiology, embryology, histology, pharmacology, pathology, and pathophysiology into a meaningful basis on which patient management strategies are based. This course introduces the student to cardiovascular and pulmonary assessments, interventions, and outcome analyses. The course includes information specific to pediatric, adolescent, adult, and geriatric patients.

**PTE 647 Clinical Internship II.** 6 F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides for continuing development of clinical skills in the form of a six week, full-time clinical internship. Students will continue to develop their clinical internship plan and specific goals and objectives for *Clinical Internship II*. Students will complete a case study or present an "in-service" while on the six week internship write a short, reflective paper, and meet the requirements established by the program and the clinical facility.

**PTE 650 Research and Outcome Analysis.** 2(2-0) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on the management of data generated by research and outcome analyses. It will fully integrate the use of statistical methods, understanding the results of applying these methods, and making inferences or conclusions based upon the data analysis. It also addresses the larger scope of disseminating this information, professional responsibility to the public to generate meaningful data, and methods of critically analyzing results and conclusions drawn by others. In the latter portion of the course, students identify their research interests, choose or are assigned a research advisor and write a research project proposal.

**PTE 653 Patient Management: Neurological II.** 4(3-3) S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers neurological disabilities across the life span, but emphasizes adult neurological disabilities. Case studies and laboratory experiences are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills. Treatment approaches include theoretical models, and task-oriented models. Therapeutic exercise, modalities, and other treatment methods are presented and included in case studies. Functional outcome measures are incorporated, as well as patient management in the home.

**PTE 654 Patient Management: Special Considerations Across the Life Span.** 2(1-3) D.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on pediatric and geriatric physical therapy and on the unique considerations that arise in these patients. The processes involved in development are compared and contrasted with the degenerative processes that occur during aging. The specific assessment and treatment methods unique to each population are studied. Additional correlations are presented in cognitive abilities, communication, dependence on others, etc. Family-centered interventions and family education in the home are compared and contrasted in both populations.

**PTE 656 Patient Management: Integumentary.** 1(1-0) S.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. The course builds on the basic information provided in *Histology and Tissue Biology*, and is correlated with information provided in *Pathology-Pathophysiology*, *Neuroanatomy-Neuroscience I and II*, and in *Physical Agents, Mechanical Modalities, and Electrotherapeutic Modalities*. Specific topics that are discussed include (but are not limited to) the prevention of skin disorders, management of burns and other open wounds, and the use of specific modalities to facilitate wound repair.

**PTE 657 Clinical Internship III.** 6, S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides for clinical practice of developing skills in the form of a six week, full-time clinical internship. Students will continue to develop their clinical internship plan and specific goals and objectives for *Clinical Internship III*. Students will complete a case study or present an "in-service" while on the six week internship, write a short, reflective paper, and meet the requirements established by the program and the clinical facility.

**PTE 660 Management of Research Projects.** 2(1-3) Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course builds upon all prior research courses in the curriculum and focuses on each student's project. Students secure Institutional Review Board approval, begin their research project, and move quickly into data collection and analysis. Important issues in research are reinforced. Students work closely with their advisor(s) during this course.

**PTE 661 Contemporary Issues in Professional Practice:** 2(1-3) Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on some of the more specialized areas of physical therapy. This includes diseases, conditions, or practice areas such as women's health, osteoporosis, pelvic floor dysfunction, pregnancy, sports medicine, chronic pain, management of persons with AIDS and HIV infection, lymphedema, selected problems in human behavior, ergonomics, and industrial health and physical therapy. Alternative and holistic therapies are discussed, as well as their relationship and integration with patient rehabilitation.

**PTE 662 Medical Pharmacology.** 2(1-3) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on medical pharmacology, particularly those aspects that significantly impact the practice of Physical Therapy. Specific topics include drugs that affect the autonomic nervous system, the cardiovascular system, the central nervous system, and the endocrine system. In addition, anti-inflammatory, antiviral, antibacterial, and chemotherapeutic drugs are discussed. Case studies augment clinical information and emphasize patient management.

**PTE 664 Patient Management: Exercise Physiology, Nutrition, and Wellness.** 3(2-3) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course describes the effects of physical activity on human performance across the life span. The effects of exercise (or lack thereof) are considered for each system in the body. Strategies for improving physical performance in a variety of settings are

considered, as well as fundamental principles of good health in relation to exercise.

**PTE 665 The Physical Therapist as Educator.** 1(1-0) Su.

Prerequisite: enrollment in the MPT program and successful completion of all prior coursework therein. This course focuses on educational theories and methodology relevant to the physical therapist in a variety of physical therapy settings. These topics are discussed in the context of promoting optimal health, preventing injury and illness, and promoting wellness. Upon completion of this course, the student will be able to utilize educational concepts and theories in the design, implementation, and evaluation of learning experiences used in the education of the community, industry, patients, families, students, colleagues, and self.

**PTE 667 Health Care Systems and the Physical Therapist.** 1(1-0) Su.

Prerequisite: enrollment in the MPT program and successful completion of all prior coursework therein. This course is an introduction to the various health care delivery systems in the United States, and provides a synopsis of the health care systems found in countries other than the United States. This course allows students to explore the provision of physical therapy services within the constraints of the existing health care systems, and to identify community needs, and resources.

**PTE 685 Histology and Tissue Biology** 2(1-2) S. (Identical with BMS 685)

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course emphasizes the structure and basic function of all the major tissues and cell types in the human body. It includes normal cell and tissue morphology and the adaptations that occur as a result of various stimuli both normal and abnormal.

**PTE 700 Advanced Topics in Geriatrics.** 1-2, D.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. Students gain insight into physical therapy related to the elderly population, their special needs and physiological changes, living environments, resources, etc. For an additional credit hour of this course, students are encouraged to develop further knowledge, skills, etc., with the elderly population. Based upon student interest and instructor approval, students may pursue additional in-depth study in areas such as (but not limited to): education, skill development, service-learning, investigation, psychomotor skills, psychosocial issues, healthcare system, reimbursement, etc., related to geriatrics.

**PTE 701 Vestibular Rehabilitation.** 1-2, D.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course describes the anatomy and physiology of the vestibular system and an overview of various pathologies associated with patient complaints of vertigo, dizziness, and balance disorders. Principles of examination, evaluation, assessment, and rehabilitation of the patient with impairment of the vestibular system and/or impaired balance are described and performed.

**PTE 702 Advanced Regional Anatomy.** 1-2, D.

Prerequisite: admission to the program and successful completion of all prior coursework therein including PTE 607, PTE 613, and PTE 685 and/or permission. This course offers in-depth coverage of basic, applied, and clinical aspects of gross anatomy. The student selects from the following regions that include head and neck, upper extremity, trunk, lower extremity. Students observe, discuss, teach, learn and dissect selected body systems in detail. This course may incorporate traditional didactic lectures, problem based discussions, laboratory dissection with assignments that rely on critical thinking. Students relate anatomical structure to functional relations and correlate structure with clinical assessments and treatments. Students make oral presentations and use the library and other sources of information (such as the Internet and our computer laboratory) to learn.

**PTE 703 Advanced Topics in Musculoskeletal Physical Therapy.** 1-2, D.

Prerequisite: admission to the program and successful completion of all prior coursework therein. This course emphasizes the management of patients suffering from musculoskeletal dysfunction focusing on differ-

ential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis treatment, analysis of functional outcomes, and re-assessment. Students will choose to focus on pt management of musculoskeletal dysfunction relation to any one of the following regions during their course of study: the upper extremity, the pelvis and lower extremity, or the spine and sacroiliac joint. Specific, focused examination and treatment techniques are included stressing the integration of knowledge, skills and evidence based practice. Treatment techniques include the use of advanced methods of soft tissue mobilization, neural flossing, myofascial release, prescription and dosage of therapeutic exercise, and joint mobilization.

**PTE 704 Advanced Topics in Pediatrics.** 1-2, D.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course is designed to allow a student to select a focus area to develop either their knowledge (cognitive), performance (psychomotor) or behavior and communication (affective) skills at an advanced level in the area of physical therapy for children. Selection of a primary area does not restrict complementing that area with a second or third area. Focus on knowledge (cognitive) acquisition implies the student will develop advanced knowledge about one or more health conditions. Health conditions will generally fall in one of the four Practice Patterns (Musculoskeletal, Cardiopulmonary, Neuromuscular, or Integumentary) as defined by the *Guide to Physical Therapist Practice*. Focus on performance (psychomotor) implies the student will develop advanced clinical skills via working with one or more clients and families in a supervised arrangement. Clinical performance will include patient documentation and didactic evidence of acting as a "scientific practitioner." Focus on behavior and communication (affective) implies the student will explore intrinsic or extrinsic factors (e.g., intrinsic psycho-social factors or extrinsic family, community or other environment factors), which prevent or facilitate achievement of a positive outcome for the client and family. This will be accomplished through library or field work. The course will involve readings and projects individually contracted between the faculty and the student.

**PTE 771 Physical Therapy Management and Administration.** 3(2-2) Su.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers theory and practical applications in managing yourself, other people, groups of people, subdivisions of organizations, and businesses. Within this framework, administration is discussed and examined as it pertains to a variety of settings in physical therapy. Health care economics is covered, as well as the economics of starting and managing a business in physical therapy. Marketing is discussed from several perspectives.

**PTE 772 Orthotics, Prosthetics, and Assistive Technologies.** 3(2-3) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course covers limb amputations, orthotic and prosthetic devices, and splints. The use of orthoses, prostheses, and splints is fully integrated into principles of patient management. Advanced wheelchair prescriptions are discussed, as well as advanced technologies (computer technologies, etc.) that are useful in rehabilitation including occupational and industrial therapies and devices.

**PTE 773 Patient Management: Advanced Differential Diagnosis.** 4(2-6) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course focuses on managing patients using a "life-long" conceptual basis. It stresses the importance of being proactive in resolving complex issues, particularly those that impact

patients for a lifetime. Critical thinking is an integral part of this course. Cost effectiveness, efficiency, long-term planning, and using the best adaptive equipment for the long-term are emphasized. The elements of patient/client management as described in *The Guide to Physical Therapist Practice* are used to guide the clinical decision making process. Integral to this course will be the use of case-based learning modules.

**PTE 777 Clinical Internship IV.** 8, F.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course provides continued clinical practice of skills in the form of an eight-week, full-time clinical internship. Students will continue to develop their global clinical internship plan, while writing specific goals and objectives for Clinical Internship IV. Students will complete a case study or present an "in-service" while on the eight-week internship, write a short, reflective paper, and meet the requirements established by the Program and the clinical facility.

**PTE 780 Research and Outcome Analysis: Completion and Presentations.** 2(0-4) F.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course is the culmination of the student's research work during the physical therapy program. Each student will present a research project to the faculty and peers for evaluation. The student's advisor and/or advisory committee will evaluate the student's research or outcome analysis paper. The paper must be written using the guidelines for publication described in the *Physical Therapy Journal*. The paper's quality must be similar to those that are published in the *Physical Therapy Journal*.

**PTE 783 Patient Management: Critical Integration and Analysis II.** 1(1-0) S.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course follows PTE 773 that stressed the use of case-based learning modules. This course focuses on managing patients using a "life-long" conceptual basis. It stresses the importance of being proactive in resolving complex issues, particularly those that impact patients for a lifetime. Critical thinking is an integral part of this course. Cost effectiveness, efficiency, long-term planning, and using the best adaptive equipment for the long-term are emphasized. The elements of patient/client management as described in *The Guide to Physical Therapist Practice* are used to guide the clinical decision making process. The course will culminate with student teaching seminars that students have prepared while on Clinical Internship IV and V. These seminars are complex case studies presented to student peers and faculty.

**PTE 787 Clinical Internship V.** 8, S.

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course provides clinical practice in the form of an eight-week, full-time clinical internship. Students will continue to develop their global clinical internship plan, while writing specific goals and objectives for both Clinical Internships V and VI. Students will complete a case study or present an "in-service" while on the eight-week internship, write a short reflective paper, and meet the requirements established by the program and the clinical facility.

**PTE 788 Clinical Internship VI.** 6, S.

Prerequisite: enrollment in the program and successful completion of all prior coursework therein. This course provides clinical practice in the form of a six-week, full-time clinical internship. Students must meet the requirements established by the Program and the clinical faculty. After completion of Clinical Internship VI and upon their return to campus, students will enter a period of in-depth self-analysis and reflection concerning Clinical Internship VI and the entire clinical education experience.

## Department of Physician Assistant Studies

112 Physical Therapy Building, Phone: 836-6151, FAX: 836-6406

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Department Web Site: [www.missouristate.edu/pas/](http://www.missouristate.edu/pas/)

**Department Head:** Assistant Professor Steven T. Dodge, M.D.

**Assistant Professor:** Ralph Rice, M.P.A.S., P.A.-C.

**Instructors:** Robert Candles, M.S., P.A.-C.; Nancy M. Dion, M.S., P.A.-C.

**Adjunct Faculty:** Scott Kaufman, R.N., Pharm.D.; Mary Lou Stevens, M.S., P.A.-C.

**Accreditation:** Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) – Physician Assistant, M.S.

### Graduate Program

The Master of Science degree offers a major in Physician Assistant Studies. See the Graduate Catalog for details.

### Physician Assistant Studies Courses

*The following courses are open only to graduate students.*

**PAS 617 Medical Human Anatomy and Radiology** 6(3-11) S. (Identical with BMS 617)

Prerequisite: admission to the MS in PAS or permission. Regional study of the human body. Course will include lecture and laboratory activities including cadaver dissection, study of anatomic models, computer images, X-ray, CAT scan, and MRI and ultrasound imaging.

**PAS 653 Medical Physiology Clinical Correlations.** 1(0-2) S.

Prerequisite: admission to the MS in PAS and concurrent enrollment in BMS 652. Clinical application and discussion of physiologic concepts for PA students.

**PAS 665 Clinical Assessment I.** 3(2-2) S.

Prerequisite: admission to the MS in PAS. The first of a 2-semester course sequence. Introduction to effective communication and interviewing skills, techniques of physical examination utilizing a systematic anatomical approach and the recording and presentation of clinical information. Format will include lecture, hands-on laboratory exercises, small group presentations, limited patient contact and written and practical examinations.

**PAS 666 Clinical Assessment II.** 3(2-2) Su.

Prerequisite: admission to the MS in PAS. A continuation of Clinical Assessment I. Emphasis will be on continued development of interviewing and physical examination skills, recognizing and interpreting abnormal physical findings, developing problem lists and differential diagnoses, and refining the recording and presenting of patient evaluation data. In addition, students will learn advanced assessment techniques and perform written and practical skills examinations that incorporate the objective structured clinical exam (OSCE).

**PAS 669 Behavioral Medicine.** 1(0-2) S.

Prerequisite: admission to the MS in PAS. A biopsychosocial systems approach to the individual, family and community within the health care delivery system that includes issues germane to public health and rural medicine. A variety of topics such as growth and development, human sexuality, health promotion and disease prevention, health education, patient compliance, cultural diversity, substance abuse, family violence, child abuse and rural health issues are examined.

**PAS 670 Professional Issues Seminar.** 1(0-2) Su.

Prerequisite: admission to the MS in PAS. Seminar format for discussion of professional and legal issues relevant to the physician assistant profession. Includes topics such as the history of the profession, health care systems, professional organizations, national certification, Missouri licensure, prescriptive privileges, and clinical ethics.

**PAS 675 Principles of Clinical Problem Solving.** 1(0-2) S.

Prerequisite: admission to the MS in PAS or permission. Introduction to critical thinking skills and problem solving techniques. Incorporates

problem based learning format where small groups of students under the supervision of a group leader explore the various facets of “real-life” clinical case scenarios.

**PAS 676 Clinical Problem Solving Seminar.** 1(0-2) F.

Prerequisite: admission to the MS in PAS. Advanced exercises in clinical problem solving in a small group format. Commonly presenting clinical problems are utilized as a means to refine students’ ability to choose appropriate steps to determine a definitive diagnosis/outcome.

**PAS 677 Introduction to Research and Clinical Epidemiology.** 3(3-0) F.

Prerequisite: admission to the MS in PAS. Foundations of quantitative and qualitative research methodology related to the study of disease in populations. Includes issues related to study design, data collection, and methods of statistical analysis with a focus on application of these principles in the clinical setting. Will serve as the foundation for development of the clinical year research project.

**PAS 680 Pharmacotherapeutics I.** 1(1-0) Su.

Prerequisite: admission to MS in PAS. The first in a two-course sequence to introduce the principles of pharmacology and pharmacotherapeutics for the diagnosis, prevention and treatment of disease. Emphasis will be placed on the pharmacological, pharmacokinetic and pharmacodynamic properties of drugs and drug classes used in medical practice.

**PAS 681 Advanced Pharmacotherapeutics.** 3(3-0) F. (Identical with NUR 661).

Prerequisite: completion of PAS 680, or RN, or permission. In-depth analysis of pharmacotherapeutics and the application of drugs for the diagnosis, treatment and prevention of disease. Emphasis will be placed on the rational use of drugs in the care and treatment of pediatric, adult and geriatric patients in primary care settings. Will include discussion of treatment guidelines, indications, contraindications, prescription writing, drug law, drug information resources and case studies.

**PAS 683 Clinical Practicum I.** 1(0-4) Su.

Prerequisite: admission to the MS in PAS and successful completion of didactic course work. A two week clinical experience with a minimum of 64 hours patient care under the supervision of a physician preceptor. Emphasis will be on refining interviewing, physical examination, recording and written/oral presentation skills.

**PAS 684 Clinical Practicum II.** 1(0-4) F.

Prerequisite: admission to the MS in PAS. Clinical practicum for students to gain additional experiences in evaluating medical patients. Students will be under the supervision of a physician preceptor one afternoon per week (for a minimum of 32 hours during the semester) to further refine their interview and physical exam skills, including formulation of a differential diagnosis and patient management plans and presentation skills. Didactic classroom experience will also be required.

**PAS 685 Clinical Medicine I.** 4(4-2) Su.

Prerequisite: admission to the MS in PAS. The first in a two-semester course sequence. Introduction to clinical medicine through an organs systems approach that examines the pertinent anatomy, pathophysiology, diagnosis, treatment, follow-up, patient education, and prevention strategies for the various disease entities. Emphasis will be on problems frequently encountered in primary care settings. Includes lecture and discussion.

**PAS 686 Clinical Medicine II.** 6(6-2) F.

Prerequisite: admission to the MS in PAS. A continuation of *Clinical Medicine I* that emphasizes the organs systems approach to examine the pertinent anatomy, pathophysiology, diagnosis, treatment, follow-up, patient education, and prevention strategies for the various disease entities. Emphasis will be on problems frequently encountered in primary care settings. Includes lecture and discussion.

**PAS 687 Laboratory Medicine and Clinical Procedures.** 1(0-3) F.

Prerequisite: admission to the MS in PAS. "Hands-on" laboratory format class that introduces the student to skills needed to perform diagnostic and therapeutic procedures such as performing/interpreting basic laboratory tests, phlebotomy, casting and splinting, knot tying, suturing, intravenous line insertion, aseptic technique, catheterization, and other clinical skills.

**PAS 688 EKG and ACLS.** 2(0-4) F.

Prerequisite: admission to the MS in PAS. A study of the principles and practical applications of electro-cardiography for the physician assistant, followed by an Advanced Cardiac Life Support course. Lecture, lab, interactive CD, and "mock code" skills training.

**PAS 690 Clinical Preceptorship.** 3(0-40) F,S,Su.

Prerequisite: admission to the MS in PAS and promotion from the didactic year. Consists of a four-week structured clinical experience

under the supervision of a qualified preceptor that will introduce the student to the evaluation, diagnosis, treatment, monitoring, patient education, and referral of patients for the various clinical presentations within a specific discipline. The emphasis will be on problems encountered in primary care settings. Specific cognitive, skill, and attitudinal objectives are defined for each required preceptorship that includes family practice/primary care, general surgery, psychiatry/behavioral medicine, internal medicine, emergency medicine, women's health, and pediatrics. May be repeated.

**PAS 697 Clinical Practice Issues Seminar.** 1(0-2) F,S,Su.

Prerequisite: clinical year standing in the MS in PAS. Provides a forum for topics germane to the clinical practice setting and transition to professional practice. Topics of interest will cover areas such as managed health care, ethical decision-making, pharmacological management, resume preparation, job negotiation skills, the national certification examination, etc. May be repeated for a maximum of 3 hours. Graded Pass/Not Pass only.

**PAS 698 Research Project.** 2, F.

Prerequisite: clinical year standing in the MS in PAS. In-depth study of a clinical problem of interest that culminates in a scholarly paper and formal presentation.



## Department of Psychology

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**Professors:** Timothy A. Bender, Ph.D.; Russell N. Carney, Ph.D.; David Dixon, Ph.D.; Donald L. Fischer, Ph.D.; Bradley J. Fisher, Ph.D.; Harry L. Hom, Jr., Ph.D.; Robert G. Jones, Ph.D.; David J. Lutz, Ph.D.; Arden T. Miller, Ph.D.; Michael T. Nietzel, Ph.D.; Jeanne A. Phelps, Ph.D.; Carol F. Shoptaugh, Ph.D.

**Associate Professors:** Matthew N. Fanetti, Ph.D.; Donn L. Kaiser, Ph.D.; Thomas D. Kane, Ph.D.; Chantal Levesque, Ph.D.; Elissa M. Lewis, Ph.D.; J. Jeff Maloney, Ph.D.; D. Wayne Mitchell, Ph.D.; Mary C. Newman, Ph.D.; Frank Ragozzine, Ph.D.; John S. Rosenkoetter, Ph.D.; Michelle E. Visio, Ph.D.

**Assistant Professors:** Ann D. Branstetter, Ph.D.; Jay C. Brown, Ph.D.; Steven C. Capps, Ph.D.; Carol A. Gosselink, Ph.D.; Danae L. Hudson, Ph.D.; Annette H. Parkerson, Ph.D.; Barbara S. Turpin, Ph.D.; Brooke L. Whisenhunt, Ph.D.

**Lecturer:** Tanya L. Whipple, Psy.D.

**Emeritus Professors:** Chris T. Bersted, Ph.D.; Sylvia T. Buse, Ph.D.; Paul J. Companik, Ph.D.; James O. Davis, Ph.D.; Susan L. Hom, M.S.; F. LaMorris Hyde, Ph.D.; B. Richard Quinn, Ed.D.; David W. Stockburger, Ph.D.; Clifford I. Whipple, Ph.D.

### Credit By Examination

Credit for PSY 121 is available for the Advanced Placement (AP) Examination and the International Baccalaureate (IB) Subject Examination. See the "Academic Regulations/Credit By Exam" section of this catalog for information.

### General Education Courses

PSY 101 or 121 may be counted toward the Social/Behavioral Perspective of the Self-Understanding Area of Inquiry in General Education.

## Majors

### Gerontology (Comprehensive)

#### Bachelor of Science

- A. General Education (see General Education section of catalog) The following prerequisite courses will meet General Education requirements: COM 115(3); PLS 101(3); PSY 121(3); BIO 102(4) or BMS 110(4); CHM 105(5) or 106(4) or 160(4)
- B. Major Requirements
  1. Prerequisite for required courses for Gerontology major: PSY 304(3) or 350(3)
  2. Core courses for Gerontology major:
    - a. Substantive Aging Courses: BMS 260(4); GER 310(3), 380(3), 470(3); PSY 365(3)
    - b. Research Methods Course: PSY 203(3) or PSY 302 or SOC 301(3) or another course approved by advisor
    - c. Communication Skills Course: COM 390(3) or 326(3) or 332(3) or 405(3) or another course approved by advisor
    - d. Statistics Course: AGR 330(3) or ECO 308(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 331(3) or SOC 302(3) or another course approved by advisor
    - e. Health Sciences Course: BMS 240(3) or 310(3) or CFS 130(3) or another course focusing on physical health and wellness selected by the student with advisor approval
  3. Other required courses: GER 498(6-12), Supervised Practicum in Gerontology and GER 499(3), Seminar in Gerontology
  4. Electives to complete comprehensive major: 6 hours of GER courses with another 3 hours selected by the student with advisor approval

- C. Electives to complete 125 hours. Students are encouraged to use these hours to complete another major or minor
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Psychology (Non-Comprehensive)

#### Bachelor of Arts

- Admission Requirements:** Completion of all General Education Basic Required Courses, including Writing II.
- A. General Education (see General Education section of catalog)
  - B. Major Requirements (34 hours)
    1. Required Core (13 hours): PSY 121, 200, 302, 315, 495
    2. Foundation Coursework (9 hours) Choose at least one course from each of the following areas:
      - a. Developmental: PSY 331, 350, 365, 441
      - b. Basic Processes: PSY 336, 422, 502, 506, 521, 525
      - c. Applied: PSY 304, 359, 512, 529
    3. Additional 12 hours of psychology electives, at least 6 hours of which must be numbered 300 or above.
  - C. Minor Required
  - D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
  - E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Psychology (Non-Comprehensive)

#### Bachelor of Science

- Admission Requirements:** Completion of all General Education Basic Required Courses, including Writing II.
- A. General Education (see General Education section of catalog)
  - B. Major Requirements (34 hours)
    1. Required Core (13 hours): PSY 121, 200, 302, 315, 495
    2. Foundation Coursework (9 hours) Choose at least one course from each of the following areas:
      - a. Developmental: PSY 331, 350, 365, 441
      - b. Basic Processes: PSY 336, 422, 502, 506, 521, 525
      - c. Applied: PSY 304, 359, 512, 529
    3. Additional 12 hours of psychology electives, at least 6 hours of which must be numbered 300 or above.
  - C. Minor Required
  - D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minors

### Gerontology

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Social Work

- A. Required Courses: GER 380(3) and two of the following courses: BMS 260(4); PSY 365(3); GER 310(3)
- B. Complete an additional 9 hours of elective courses chosen from the following with approval of the program coordinator or delegate (6 hours must be courses with a GER designation) to bring total hours in minor to at least 18 hours:  
GER 320(3), 330(3), 350(3), 365(3), 396(1-3), 397(1-3); BMS 260(4)\*; COM 390(3); PED 467(4); PSY 365(3)\*; GER 310(3)\*; or another approved course.

\*Counts in elective hours if **not** taken as a "required" core course.

### Psychology

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Social Work

- A. Required Courses (6-9 hours) – complete one of the following groups:
1. PSY 121(3) and PSY 203(3)
  2. PSY 121(3) and PSY 200(3) and PSY 302(3)
- B. Elective Courses (9-12 hours) – complete additional PSY courses, with at least 6 hours numbered 300 or above, to total at least 18 hours

### Psychology

#### Bachelor of Science in Education

#### (Non-Certifiable)

No certificate to teach is issued on a psychology minor. However, those teaching psychology in high school will find this program valuable, as will those planning graduate work in educational psychology, counseling and guidance, etc.

- A. Required Courses (9-12 hours) – complete one of the following groups:
1. PSY 121(3) and PSY 203(3) and PSY 331(3)
  2. PSY 121(3) and PSY 200(3) and PSY 302(3) and PSY 331(3)
- B. Elective Courses (12-15 hours) – complete additional PSY courses, numbered 300 or above, to total at least 24 hours.

NOTE: PSY 380, 385, 390 may **not** be used toward this requirement.

## Graduate Program

The Master of Science degree offers a major in Psychology with tracks in Industrial/Organizational, Clinical, or General. See the Graduate Catalog for details.

## Gerontology Courses

### GER 300 Service Learning Curricular Component. 1 F,S.

Prerequisite: 30 hours and concurrent registration in a gerontology course designated as service learning offering. An integrative learning experience which addresses the practice of citizenship and promotes an awareness of and participation in public affairs by incorporating community service with classroom instruction. Includes 40 hours on-task service to a community organization, agency or public service provider. The community service placement agency and service assignment will

vary, dependent on the course topic and learning objectives. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

### GER 301 The Elderly and the Media: Confronting Popular Stereotypes. 1(1-0) D.

Prerequisite: completion of 30 hours or permission. Students will be introduced to common stereotypes held about the elderly within our society and statistics and information which prove these stereotypes to be false. Public perceptions of the elderly will be studied through the use of five commercial motion pictures and a review of four articles covering topics related to the theme of each of the films. The class will focus on how stereotypes about the elderly are both reinforced and challenged in commercial motion pictures, how stereotypes affect an older person's self-concept, and how popular ageist stereotypes shape our own views on growing older.

### GER 302 Successful Aging and Identity Issues in Later Life. 1(1-0) D.

Prerequisite: completion of 30 hours or permission. This course introduces students to the idea of successful aging in later life and the necessary ingredients to maximize one's chances for a satisfying old age. Society's views of older people and life situations confronted in later life will be explored through the use of five commercial motion pictures. A review of three articles (through quizzes and class discussion) will give students a basic understanding of successful aging and identity issues in later life.

### GER 310 Social Forces and Aging. 3(3-0) F.

Prerequisite: completion of 45 hours or permission. This course examines the aging process, demographic trends, and the social, economic, and social-psychological aspects of aging in the United States. Students will be introduced to current theories on aging in social gerontology and their application to the everyday lives of older people. Topics of interest include social attitudes toward aging, family and social bonds, work and retirement, gender issues, ethnicity and aging, living environments, and approaches to aging well. Students will learn about the role of federal, state and local agencies in meeting the needs of the elderly.

### GER 320 Gender Issues in Later Life. 3(3-0) S.

Prerequisite: completion of 45 hours or GST 170 or permission. A comparison of the aging experiences of men and women in later life. The relevance of gender and gender roles to the aging process will be considered. Specific topics of analysis will include the gender gap in longevity, psychological and physical health, minority status, socioeconomic status, family relationships, and public policy issues.

### GER 330 Ethnic Diversity and Aging. 3(3-0) D.

Prerequisite: completion of 45 hours or permission. This course investigates ethnic/racial diversity and cultural differences in relation to the experience of aging. Both a national and an international perspective will be emphasized in the focus on aging experiences across different ethnic/racial groups. Students will be exposed to fundamental concepts relative to ethnicity, racial discrimination, and cultural differences and how these impact upon the aging process and experiences in later life.

### GER 350 Death, Bereavement, and the Elderly. 3(3-0) F.

Prerequisite: completion of 45 hours or permission. This course examines issues related to death and bereavement within the context of later life. Students will examine the social construction of death within American culture, and the physiology of death; they will be encouraged to consider personal thoughts and beliefs surrounding this event. Students will be investigating and discussing issues such as elder suicide, euthanasia, living wills, hospice, widowhood, AIDS and the elderly, death in skilled care facilities, clustered loss, grieving, and attitudes toward death.

### GER 365 Families in Later Life. 3(3-0) F. (Identical with CFD 365)

Prerequisite: completion of CFD 155 or CFD 163 or 45 hours or permission. Examination of the structure and function of families in later

life. Topics of interest include demographic trends impacting the structure of the family, marriage, sibling relations, parent-adult child relations, grandparenthood, widowhood, and retirement. The application of family theories and their relevance to later life families will be discussed.

**GER 380 (340) Senior Citizens: Policies and Politics.** 3(3-0) S. Prerequisite: completion of 9 hours of gerontology or permission. Students will be introduced to the development and practice of social policy, on the state and federal level, and how it affects services to the older adult population. Political organizations that influence the lives of the elderly (e.g., the American Association of Retired Persons, Gray Panthers, Older Women's League) will be examined as well as government and social welfare programs (i.e., Social Security, Medicaid and Medicare). What constitutes "citizenship" and the role of a "senior citizen" will also be explored.

**GER 396 Directed Readings in Gerontology.** 1-3, D. Prerequisite: 6 hours of gerontology and permission. Readings designed to supplement material introduced in previous Gerontology courses. Includes a wide selection of literature in the field. May be repeated to a total of 6 hours.

**GER 397 Special Topics in Gerontology.** 1-3, D. Prerequisite: completion of 6 hours of designated courses in the gerontology major or permission of instructor. In-depth inquiry into selected interdisciplinary topics of contemporary interest in gerontology. May be repeated to a total of 6 hours when topic changes. Variable Content Course.

**GER 470 Community Resources for Older Adults.** 4(4-0) F. Prerequisite: GER 380 or permission. This course covers the services, programs and institutions involved in providing services to older adults in the United States, with a focus on community-based services. Typical needs, issues, concerns and desires of older persons are identified and corresponding community-based services to address these needs are discussed. Emerging issues and developments in the field of gerontology will also be discussed as they relate to community services and resources. Site visits to agencies and organizations serving older adults will enhance students' familiarity with resources to improve the quality of life and well-being of aging members in our society.

**GER 498 Supervised Practicum in Gerontology.** 3-12, F,S. Prerequisite: completion of the gerontology core courses with a grade of "C" or better in each and permission of the program coordinator. On-site contacts with elderly individuals through an internship at a residential or community placement approved by the coordinator. Direct supervision will be provided by qualified professionals in the field of gerontology. Students will serve 45 clock hours for each credit hour awarded. May be repeated to a total of 12 hours.

**GER 499 Seminar in Gerontology.** 3(3-0) F,S. Prerequisite: completion of the gerontology core courses with a grade of "C" or better in each and permission of the program coordinator. Weekly meetings to allow students to correlate experiences in GER 498 with academic knowledge, share experiences, and broaden contacts in the field of aging. Survey of current literature in gerontology from various disciplines will be included.

**GER 597 Special Topics in Gerontology.** 1-3, D. Prerequisite: completion of 90 hours and 12 hours of gerontology or permission of instructor. In-depth inquiry into selected interdisciplinary topics of contemporary interest in gerontology. May be repeated to a total of 6 hours when topic changes. Variable Content Course.

## Psychology Courses

**PSY 101 Psychology for Personal Growth.** 3(3-0) F,S.

A study of the emotional, intellectual, and interpersonal experiences of self and others in order to enhance self-understanding, to make informed choices, and to promote adjustment. Will not count toward the major or minor in psychology.

**PSY 121 Introductory Psychology.** 3(3-0) F,S.

An examination of how psychology enhances our understanding of human behavior; a survey of basic biological, experiential, cognitive, emotional, and sociocultural influences on behavior and self-understanding. Students must choose either to be research participants or fulfill an alternative library assignment as part of the course requirements.

**PSY 150 An Introduction to the Psychology Major.** 1(1-0) F,S.

A course designed to acquaint new or prospective majors with careers available and to encourage an analysis of the student's personal and professional goals. Should be taken no later than the semester after a student declares the psychology major.

**PSY 160 The Pursuit of Happiness: A Psychological Perspective.** 1(1-0) D.

Explore the sources of our moods with an emphasis on skills for achieving healthy, happy, and productive feelings.

**PSY 197 (100) Topics in Psychology.** 1(1-0) F,S.

Selected topics especially appropriate for lower division students. (Examples: meaning of death, preparation for marriage, child rearing practices, etc.). May be repeated for a maximum of 4 hours.

**PSY 200 Psychological Statistical Methods.** 3(3-0) F, S.

Prerequisite: PSY 121; completion of math general education requirements. Principles and methods of statistics used in psychology; understanding and interpreting psychological data. This course cannot be credited toward a degree if the student has taken any of the following: AGR 330, ECO 308, MTH 340, QBA 237, REC 331, SOC 302.

**PSY 203 Introduction to Research.** 3(3-0) S.

Prerequisite: PSY 121, any General Education MTH course. This course will provide an integrated approach to elementary research design and statistical methods. Students will review current research and develop small projects for which statistical methods will be selected and applied. This course cannot be substituted for PSY 200 and/or PSY 201 on the psychology major and **will not count toward the Psychology major.** This course is designed for psychology minors and will not prepare students for graduate work in Psychology.

**PSY 250 Analysis of Interpersonal Behavior.** 3(0-6) D.

Prerequisite: PSY 121 and permission of the instructor. Ongoing processes of interpersonal behavior. Observation and experience as participant of a self-analytic group in the human relations laboratory.

**PSY 300 Naturalistic Methods in Social Psychology.** 3(3-0)D.

Prerequisite: PSY 121, PSY 200 or SOC 201. An alternative approach to traditional lab investigations of social psychological processes: involves unobtrusive observation and experimentation in naturally occurring, non-laboratory field settings; racial prejudice; collective behavior; consumer behavior.

**PSY 302 (201) Experimental Psychology.** 3(2-2) F,S.

Prerequisite: PSY 121 and PSY 200. Psychological methodology; major emphasis on experimentation.

**PSY 303 Stress and Tension Control.** 3(2-2) D.

Prerequisite: PSY 121. An examination of the nature and treatment of the stress response. Laboratory experience with several forms of relaxation training including biofeedback.

**PSY 304 Abnormal Psychology.** 3(3-0) F,S.

Prerequisite: PSY 121. Psychopathology and the maladjustment of the organism.

**PSY 305 Introduction to Industrial and Organizational Psychology.** 3(3-0) F,S.

Prerequisite: PSY 121. A survey of the major topics that are studied and the methods that are used in I/O psychology. The topics and methods will be viewed from a psychological perspective and will include psychological testing and personnel selection; training and development; job analysis, employee evaluation and performance appraisal; human motivation and job satisfaction; leadership, communication and group processes; organization theory and development.

**PSY 306 (401) Learning Processes.** 3(2-2) D.

Prerequisite: PSY 121, plus 3 additional hours of psychology. A survey of the methods of classical and instrumental conditioning with a laboratory introduction to basic operant conditioning techniques.

**PSY 307 Human Sexuality.** 3(3-0) D.

Prerequisite: PSY 121. A balanced and comprehensive perspective of the field of human sexuality. Content includes the psychological, physiological, and interpersonal variables of human sexuality.

**PSY 310 Applied Psychology.** 3(3-0) D.

Prerequisite: PSY 121. Practical areas of application of psychology. Limited enrollment; field trips required.

**PSY 311 Service Learning in Psychology.** 1 F,S.

Prerequisite: 30 hours, concurrent registration in a Psychology course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in psychology to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of, and participation, in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning credit may count toward graduation.

**PSY 315(415) History and Systems of Psychology.** 3(3-0) F, S.

Prerequisite: PSY 121 and 6 additional hours of psychology. Present psychological systems in the light of their historical development from ancient Greek and medieval thought.

**PSY 320 Psychology and the Law.** 3(3-0) F,S.

Prerequisite: PSY 121. This course is a survey of psychology applied to the legal system. The course includes topics in mental health law, such as competency and insanity, as well as the psychology of law enforcement, crime, juries, eyewitness testimony, and legal socialization.

**PSY 325 Psychology of Music.** 3(3-0) F.

Prerequisite: PSY 121. The study of music from a psychological perspective, with emphasis on music perception and cognition. Topics include perception of musical attributes such as pitch, musical illusions, cognitive organization of music, and music and emotion. Previous musical knowledge is not required.

**PSY 331 (231) Psychology of Childhood.** 3(3-0) F,S.

Prerequisite: PSY 121. This course examines major psychological issues, theories and research concerning child development. Influences on cognitive, personality and social development are analyzed.

**PSY 336 Ethology.** 3(3-0) F,S.

Prerequisite: PSY 121. The study of the behavior of animals in a natural setting will be emphasized. The viewpoints of ethology, comparative psychology, behavioral ecology, and sociobiology will be used to study the behavior of animals, including humans. This course cannot be credited toward a degree if the student has taken PSY 497: Animal Behavior.

**PSY 339 Introduction to Clinical Psychology.** 3(3-0) F, S.

Prerequisite: PSY 121 and PSY 304. A survey of the field of clinical psychology from a broad conceptual and historic perspective. The course examines professional issues such as various mental health delivery systems, ethics, and graduate training. The course also presents an overview of different approaches to psychotherapy along with assessment methods commonly used in evaluation of therapy, research, and decision making in a clinical setting.

**PSY 350 Psychology of Adulthood.** 3(3-0) F,S.

Prerequisite: PSY 121. Principles and practical applications in development of the adult. Includes psychological effects of personality and intellect. Both normal and abnormal phenomena are considered.

**PSY 355 The Psychology of Women.** 3(3-0) D.

Prerequisite: PSY 121. An in-depth examination of the myths of women's nature, the predominant theories of women's psychology, and a review of the research on women's behavior.

**PSY 356 The Psychology of Men.** 3(3-0) D.

Prerequisite: PSY 121. A survey of the psychological development of men, including a review of the sources of gender identity and gender role identity; evaluation of the research on men and gender differences; and examination of the myth of masculinity and of the effects of feminism on men's identity and relationships.

**PSY 357 Problem-Solving in Men and Machines.** 3(3-0) D.

Prerequisite: PSY 121. Research and models of human problem solving. The man-machine analogy is explored through concepts of computer modeling of intelligence.

**PSY 359 Theories of Social Psychology.** 3(3-0) F.

Prerequisite: PSY 121 or SOC 150. A survey of research strategies in social psychology; social perception; interpersonal attraction; attitudes and persuasion; sex differences in social behavior.

**PSY 360 Educational Psychology.** 3(3-0) F,S.

Prerequisite: PSY 121. Introduction to theory and research in educational psychology. Topics include cognitive and social development, learning, memory, cognition, intelligence, motivation, measurement, and individual differences.

**PSY 363 Death and Human Behavior.** 3(3-0) D.

Prerequisite: PSY 121. An introduction to the varied aspects of death and dying. The course will focus on attitudes toward death, fears of death and dying, special needs of those who have a life threatening illness, means of helping the survivors and techniques for prolonging life.

**PSY 365 Aging and Adjustment.** 3(3-0) F.

Prerequisite: PSY 121, and PSY 304. Personality adjustment in old age, with emphasis both on adequate and maladjusted development. Factors influencing adjustment are considered. Both functional and organic sources of maladjustment are surveyed.

**PSY 379 Environmental Psychology.** 3(3-0) S.

Prerequisite: PSY 121. Study of the effects which specific physical environments have on the social behavior of individuals and groups.

**PSY 380 Development of the Student.** 4(4-0) F,S.

Prerequisite: PSY 121 and either ELE 302 or SEC 300 and 301. Life-span development, with a strong emphasis on grades K-12. Includes cognitive, physical, social, and emotional development. Coverage of developmental issues, such as divorce, child abuse, substance abuse, sexuality, and peer pressure. Also includes learning and motivation theory. Required for students seeking special education, K-9, or K-12 certification. Also WILL count toward any certification. May substitute for PSY 385 or PSY 390. Will NOT count towards the major or minor in psychology. NOTE: Credit will be awarded for only one of the following: PSY 380, PSY 385, PSY 390.

**PSY 385 Development of the Early Childhood and Elementary School Student.** 3(3-0) F,S.

Prerequisite: PSY 121, ELE 302. Life-span development, with a strong emphasis on preschool through sixth grade. Coverage of developmental issues, such as divorce, child abuse, substance abuse, and peer pressure. Also includes learning and motivation theory. Required for students seeking early childhood, early childhood-special education, or elementary education certification. PSY 380 may be taken instead of PSY 385. Will NOT count towards special education, K-9, K-12, middle school or secondary education certification. Will NOT count towards the major or minor in psychology. NOTE: Credit will be awarded for only one of the following: PSY 380, PSY 385, PSY 390.

**PSY 390 Development of the Adolescent Student.** 3(3-0) F,S  
Prerequisite: PSY 121, SEC 300, and SEC 301. Life-span development, with a strong emphasis on the middle school and secondary education years. Includes cognitive, physical, social, and emotional development. Coverage of developmental issues, such as substances abuse, sexuality, divorce, and peer pressure. Also includes learning and motivation theory. Required for students seeking middle school or secondary education certification. PSY 380 may be taken instead of PSY 390. Will NOT count towards special education, K-9, K-12, early childhood, early childhood-special education or elementary education certification. Will NOT count towards the major or minor in psychology. NOTE: Credit will be awarded for only one of the following: PSY 380, PSY 385, PSY 390.  
**PSY 405 Exercise Psychology.** 1(1-0) D.

Prerequisite: PSY 121. An examination of the research, theory, and practical applications of the field of exercise psychology. Content includes exercise adherence, psychological effects of exercise, and motivation to continue programs. Intersession course only.

**PSY 410 Research in Psychology.** 4(3-2) F.

Prerequisite: PSY 121, PSY 200 or equivalent, PSY 302. Advanced course in research methodology for psychology. The course focuses on individual research projects.

**PSY 422 (322) Memory and Cognition.** 3(2-2) S.

Prerequisite: PSY 121 and 6 additional hours of psychology. Theoretical, empirical, and practical consideration of human memory and cognition. Laboratory will focus on investigation and demonstration of various cognitive phenomena.

**PSY 441 Psychology of Adolescence.** 3(3-0) F,S.

Prerequisite: PSY 121 and one additional psychology course, and junior level standing. This course examines major psychological issues, theories, and research concerning adolescent development. Influences on cognitive, personality, and social development are analyzed.

**PSY 481 (381) Human Engineering.** 3(3-0) F.

Prerequisite: PSY 121 or 60 hours. Focuses on systematic attempts to develop principles and data to be applied in adapting equipment, machines, work space, and environments for human use.

**PSY 487 Behavior Problems of Childhood.** 3(3-0) D.

Prerequisite: PSY 121 or PSY 331. Survey of the patterns of maladjustment in childhood from infancy through early adolescence. Introduction to the concepts related to the origin, manifestation, and treatment of childhood psychopathology emphasizing a developmental approach.

**PSY 490 Preparation for Graduate School.** 1(1-0) F.

Primarily for senior students considering graduate study in psychology and related fields. Emphasis is on career awareness and the practical activities involved in the application process.

**PSY 495 Senior Seminar.** 1(1-0) F,S.

Prerequisite: senior standing (90 hours) and 27 hours of psychology or permission. Activities to help students identify and explore postgraduate career opportunities. A major field achievement test and program evaluation will be administered.

**PSY 496 (480) Directed Readings in Psychology.** 1-4, F,S.

Prerequisite: 10 hours of psychology and permission of department head. Outstanding students who wish to undertake directed readings must consult with a professor of the department who specializes in the area selected, and with his or her consent present a written proposal to the head of the department for approval. Such proposals must be presented and approved before final registration for the course. Credited only on B.A. and B.S. degrees. May be repeated for a maximum of 6 hours.

**PSY 497 (460) Advanced Topics in Psychology.** 1-3, F,S.

Prerequisite: 9 hours psychology. In depth inquiry into selected topics of psychology. May be repeated to a maximum of 9 hours if topic is different.

**Approved recurring course topic: Ethical Issues and Concepts.** 1(1-0) D.

Exploration of the ethical principles and standards that guide the practice of psychology.

**Approved recurring course topic: Psychological Disorders in the Movies.** 1(1-0) D.

Exploration and examination of psychological disorders in film.

**PSY 499 (470) Practicum in Psychology.** 1-4, F,S.

Prerequisite: PSY 121 and 17 additional hours of psychology and permission of department head. Offers an opportunity for the outstanding student to obtain additional experience through guided research or field experience. Such experience need not be confined to the campus. May be repeated for a maximum of 6 hours.

**PSY 502 (402) Learning Theories.** 3(3-0) F,S.

Prerequisite: PSY 121 and 3 additional hours of psychology. An introduction to contemporary theories about learning and behavior, emphasizing the experimental basis of these phenomena.

**PSY 506 Perception.** 3(3-0) S.

Prerequisite: PSY 121 and 3 additional hours of psychology. Nature of perception, concept formation and role of language.

**PSY 508 Behavior Management and Change.** 3(3-0) F.

Prerequisite: PSY 121. To investigate methods and theory for effecting desirable behavior change in schools, homes and personal lives.

**PSY 512 Personality Theory and Systems.** 3(3-0) S.

Prerequisite: PSY 121 and PSY 304. Current theories of personality, research background and historical development.

**PSY 519 Cognitive Development.** 3(3-0) D.

Prerequisite: PSY 121 and PSY 331 and 3 additional hours of psychology. Study of cognitive development in children and adolescents. Topics to be included: perception, memory, visual imagery, problem solving, language development, cognitive style, social learning theory, information processing theory, and Piaget's theory. Applications in education, child rearing, and behavior management.

**PSY 521 Physiological Psychology.** 3(3-0) F.

Prerequisite: PSY 121 and 3 additional hours of psychology. Physiological correlates underlying behavior, including sensory and response mechanisms, central nervous system.

**PSY 525 Motivation and Emotions.** 3(3-0) F.

Prerequisite: PSY 121 and 3 additional hours of psychology. Psychological and physiological motives, needs, drives and instinctual mechanisms; emotional effects of these upon the organism.

**PSY 527 Multivariate Statistical Methods for the Behavioral Sciences.** 3(3-0) S.

Prerequisite: Introductory Statistics (PSY 200, 611; AGR 330; ECO 308; MTH 340; QBA 237; REC 331; SOC 302 or equivalent). A review of introductory statistics and investigation of research methods in behavioral sciences that require multivariate statistical models. This course takes an applied orientation and emphasizes the use of statistical packages. Topics include: linear models, principal components analysis, discriminant analysis, multiple regression analysis, multiple regression with categorical variables, and multi-factor ANOVA.

**PSY 529 Psychological Tests and Measurements.** 3(3-0) F,S.

Prerequisite: PSY 121 and PSY 200 or equivalent. Theory and technique underlying measurement of human traits and abilities. Critical analysis of intellectual, achievement, interest and personality tests, including their development, application and potential abuses.

**PSY 533 Psychological Issues in Religion.** 3(3-0) D.

Prerequisite: PSY 121 and REL 100. Investigation, discussion, and clarification of historical background, research methods, and contemporary issues involving behavior and religious beliefs. Observation of groups and individuals practicing particular approaches to the religion both within and outside the Judeo-Christian tradition. The contemporary issues investigated will vary. The course may be repeated to total no more than 6 hours. The course is team-taught by the Department of Religious Studies and the Department of Psychology.

**PSY 534 Psychology of Infancy.** 3(3-0) D.

Prerequisite: PSY 121 and PSY 331. Theory and research on the maturation and cognition of the human infant in the first two years, from a developmental psychometric perspective. General principles of the mental and motor assessment of the infant and interpretation will be emphasized through class demonstrations so that the student may understand the use of these procedures in interpreting development and research.

**PSY 535 (435) Discipline and Social Behavior in the Classroom.** 3(3-0) D.

Prerequisite: PSY 121 and either PSY 360, 380, 385, or 390; or permission. Provides a psychological perspective of individual and social factors necessary to develop an effective eclectic approach to discipline and an understanding of social behavior in the classroom. Includes an emphasis on personal, social, and motivational development.

**PSY 550 Psychological Testing in Remedial Reading.** 3(2-2) D.

Prerequisite: permission of department head. Techniques and skills in utilizing psychological tests as they pertain to diagnosing reading disabilities and prediction of success in remedial programs. Students receive supervised practice in administration.

**PSY 555 Development Sport Team Leaders.** 1(1-0) D.

This e-course delivers leadership, team processes, and motivation principles to help coaches develop the leadership skills of sport team athletes. This course aligns sport program goals with educational goals by utilizing athletic settings to promote skills that student-athletes can apply on sport teams and in other group settings. Coaches will learn how to set specific leadership goals with team leader-athletes and will learn concrete and constructive ways to mentor leader-athletes. Coaches will use course principles to construct a plan for developing sport team leaders and for making "team leadership" a core team value.

**PSY 565 Psychological Effects of Dementia.** 4(2-4) D.

Prerequisite: PSY 121, PSY 365, or permission of department head. Description of dementias, with particular references to Alzheimer's Disease and with emphasis on behavioral consequences for both patient and caregiver. Directed practicum.

**The following courses are open only to graduate students.****PSY 600 Problems of Psychology.** 1-3, D.

Prerequisite: permission of instructor. Individual investigation into a problem or problems of concern to the student and deemed of significance by the instructor. Written report required.

**PSY 601 Symposium in Psychology.** 1-3, D.

Prerequisite: permission of instructor. Specific topics selected to introduce graduate students to research and theory. May be repeated for a maximum of 6 hours.

**PSY 603 Human Growth and Development.** 3(3-0) D.

Prerequisite: PSY 610. Depth investigation of growth and development during elementary school years. Experimental evidence and clinical evaluations used to supplement consideration of major theories of development.

**PSY 605 Psychology of Adolescence.** 3(3-0) D.

Prerequisite: PSY 610. Depth investigation of growth and development during the adolescent period. Experimental evidence and clinical evaluation used to supplement consideration of major theories of adolescence.

**PSY 607 Psychology of the Adult.** 3(3-0) D.

Development of intellectual functions, personality, and social psychological processes across the adult life span will be emphasized. Normal as well as abnormal phenomena unique to young, middle-aged, and elderly adults will also be considered.

**PSY 608 Learning, Memory, and Cognition.** 3(3-0) D.

Prerequisite: graduate student status. Provides in-depth analyses of historical and current theories and associated research in higher mental cognition processing. Primary emphasis is on normal human adult functioning, although associated topics such as cognitive development, learning dysfunctions and skill enhancement will be considered.

**PSY 609 Psychological Evaluation of Pre-School Children.** 3(3-0) D.

Prerequisite: PSY 529 or COU 601, PSY 620, or permission of instructor. Program involving both theory and practice in psychological evaluation of pre-school children.

**PSY 610 Psychology of Education.** 3(3-0) F, S.

Orientation to the use of psychology in education.

**PSY 611 Introductory Statistics for Education and Psychology.** 3(3-0) D.

Statistical techniques used in education and psychology; overview of scaling techniques, sampling, descriptive techniques, inferential techniques (to include  $t$  and  $x^2$ ), reliability and validity.

**PSY 616 (540) Personnel Psychology.** 3(3-0) D.

Prerequisite: graduate standing or permission. A survey of the psychological principles, theory, and research related to personnel practices in organizations. Topics include job analysis, performance appraisal and criterion development, individual differences measurement, personnel selection, and reliability, validity, and utility analysis.

**PSY 618 (515) Organizational Psychology.** 3(3-0) D.

Prerequisite: PSY 121 and PSY 305 or permission. A survey of the psychological principles, theory, and research related to behavior in organizations. Topics include work motivation, job satisfaction and performance, leadership and group processes, organizational design and development.

**PSY 620 Individual Intelligence Testing.** 3(2-2) F, S.

Prerequisite: PSY 529 or COU 601. Analysis of individual tests of intelligence; Wechsler Scales and the Revised Stanford Binet. Students receive supervised practice in administration, scoring and interpretation of individual tests.

**PSY 621 Individual Intelligence Testing II.** 3(2-2) D.

Prerequisite: PSY 529 or COU 601. Analysis of individual tests of intelligence; Stanford-Binet Fourth Edition and Kaufman Assessment Battery for Children. Students will receive supervised practice in administration, scoring, and interpretation.

**PSY 630 Projective Techniques.** 3(3-0) D.

Prerequisite: PSY 529 or COU 601; and PSY 620. Introduction to theory of and basic underlying projective methods.

**PSY 640 Psychological Assessment.** 3(3-0) S.

Prerequisite: graduate status in psychology. Students of clinical psychology will be introduced to the process of psychological diagnosis. They will be expected to master the administration, scoring, and interpretation of individual instruments and become acquainted with the foundations and theory and research on which they rest. In addition the course will emphasize the differential applicability of tests and assessment techniques to a wide range of referral problems and the principles of clinical inference that may be used to interpret, integrate, and communicate their diagnostic findings.

**PSY 642 Practicum in Psychological Assessment.** 3(1-4) D.

Prerequisite: PSY 640, PSY 650 and permission of the instructor. Supervised experience in assessment, diagnoses and report-writing with clients at a community mental health facility. Site arrangements must be made by the Practicum Coordinator during the preceding semester. Consists of a one-hour seminar on campus and 4 hours at the practicum site each week. May be repeated and a minimum grade of "B" must be maintained.

**PSY 645 Statistics and Research Design.** 3(3-0) F.

Prerequisite: Introductory Statistics (PSY 200, 611; AGR 330; ECO 308; MTH 340; QBA 237; REC 331; SOC 302 or equivalent). Use of the Analysis of Variance (ANOVA) Models and Multivariate Analysis in the design and analysis of psychological experiments.

**PSY 650 Advanced Survey of Psychology.** 3(3-0) F.

Reinforce breadth of knowledge of psychology in the areas of Biological bases of behavior, Sensation and Perception, Memory, Cognition, Motivation, Development and Social Psychology.

**PSY 651 Seminar in Methods of Research.** 3(3-0) D.

Prerequisite: PSY 610, PSY 611. Investigation of research methods employed in education and psychology.

**PSY 652 Research Methods.** 3(3-0) S.

Provides an understanding of the research methods employed in experimental and applied settings. Includes ethical considerations.

**PSY 653 Program Evaluation.** 3(3-0) D.

Prerequisite: PSY 645 or equivalent. The application of research methods to the evaluation of programs and planned change interventions in organizations.

**PSY 659 Teaching of Psychology.** 1(1-0) D.

Prerequisite: acceptance into the graduate program. Must be taken prior to or concurrent with first teaching of any regular or laboratory section of any course. Preparation for teaching college courses, includes development of personal philosophies of teaching; suggestions for active student learning; maintaining student motivation; preparing assignments, in-class presentations, and exams; grading; and classroom management. Designed to help graduate students prepare for their first independent college teaching experiences.

**PSY 660 Clinical Communication Skills.** 3(3-0) F.

Prerequisite: admission to psychology M.S. program or permission. Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication, and development of basic helping skills.

**PSY 661 Ethical and Professional Issues.** 3(3-0) F.

Prerequisite: admission to psychology M.S. program or permission of instructor. An exploration of ethical issues, including values, professional responsibilities, and professional ethics codes. Issues are explored both from ethical and legal perspectives. Current professional issues, such as changing modes of assessment and intervention, are examined.

**PSY 664 (670) Group Psychotherapy.** 3(3-0) D.

Prerequisite: graduate standing and permission of the instructor. An extensive analysis of the factors contributing to the development and maintenance of therapeutic groups in a variety of settings. The prevention and education uses of small groups and small group processes will be included.

**PSY 665 Techniques of Individual Psychotherapy.** 3(3-0) S.

Prerequisite: graduate status in psychology. In-depth investigation of major strategies of psychotherapy and their efficacy. Emphasis on theoretical bases and critical analysis of comparative research.

**PSY 666 Psychopathology.** 3(3-0) F.

Prerequisite: graduate standing or permission of the instructor. Focus is on the differential diagnosis of behavior disorders, the appropriate use of the multi-axial approach of DSM-IV, and current research.

**PSY 667 Behavior Disorders of Childhood.** 3(3-0) S.

Prerequisite: PSY 666 or permission of instructor. Course focuses on assessment and treatment of common childhood behavior disorders. The course emphasizes 1) the study of biological, behavioral, cognitive, and systemic variables in the development of childhood behavior disorders; 2) training in multiaxial diagnostic assessment; and 3) interventions.

**PSY 668 Personality and Social Development.** 3(3-0) D.

Prerequisite: graduate standing. A survey of the major theoretical and practical issues in the study of personality and social development. The course will focus on application of personality to universal human concerns.

**PSY 671 Organizational Health Psychology.** 3(3-0) S.

Prerequisite: PSY 618 or permission of the instructor. An in-depth consideration of the psychological principles, theory, research, applications and problems associated with occupational stress, safety and health. Topics include personal, organizational, work-related and social antecedents to stress, as well as the short-term and long-term responses to stress.

**PSY 672 Performance Assessment.** 3(3-0) D.

Prerequisite: PSY 616 and PSY 645, or permission. An in-depth consideration of theory, research, applications and problems of performance assessment in organizations. Topics include criterion development and validation, models of effectiveness, performance appraisal, methods and sources of evaluation, performance feedback, team performance measurement, and biases in assessment.

**PSY 673 (667) Human Factors.** 3(3-0) D.

Prerequisite: PSY 651. Provides an introduction to human factors engineering (ergonomics) primarily in the workplace. Involves emphasis on analyzing job requirements, human capabilities, human-machine interactions, and safety.

**PSY 674 Training and Development.** 3(3-0) D.

Prerequisite: PSY 616 and PSY 618, or permission of instructor. An in-depth consideration of theory, research, applications, and problems in the design, conduct and evaluation of training programs in organizational settings. Topics include needs assessment, theories of learning and motivation, transfer of training, and evaluation of training processes and outcomes.

**PSY 676 Personnel Selection, Placement and Classification.** 3(3-0) D.

Prerequisite: PSY 616 and PSY 645, or permission of instructor. In-depth consideration of the theory, research, applications, and problems in matching of individual needs, preferences, skills and abilities with the needs and preferences of organizations. Topics include job analysis, theories of human performance, test development and use, alternative selection techniques, EEO law, criterion development, and validation of selection decisions.

**PSY 678 Group Processes.** 3(3-0) D.

Prerequisite: PSY 618 or permission. An in-depth consideration of theory, research, applications, and problems in group processes in organizations. Topics include models and typologies of group performance, group decision making, group social influence and ecology, leadership, and team staffing and development.

**PSY 679 (615) Topics in Industrial/Organizational Psychology.** 3(3-0) D.

Prerequisite: PSY 616 and PSY 618, or permission. Advanced study of selected topics in I/O psychology. Course requirements include extensive readings and a paper. May be repeated if different topics for a maximum of 9 hours.

**PSY 680 Social Psychology.** 3(3-0) S.

Advanced study of interactions and social cognition, including attitude change, person perception, and group dynamics.

**PSY 696 Practicum.** 1-6, F,S.

Prerequisite: acceptance into the graduate program and permission of the department head. Offers an opportunity for the graduate student to gain additional training through field experiences in research, clinical or organizational settings. Such experience need not be confined to the campus. Section titles will vary. May be repeated for a maximum of 6 hours. Variable Content Course.

**PSY 697 Directed Research.** 1-6, F,S.

Prerequisite: acceptance into the graduate program and permission of the department head. Offers an opportunity for the graduate student to gain additional training through guided research. Such research need not be confined to the campus. May be repeated for a maximum of 6 hours.

**PSY 698 Internship.** 1-6, F,S.

Prerequisite: PSY 696 and permission. Supervised fieldwork in a professional psychology setting. Includes a seminar paper as a requirement.

**PSY 699 Thesis.** 1-6, D.

Prerequisite: permission of coordinator of psychology graduate program. Independent research and study leading to the completion of the thesis.



## School of Social Work

200 Professional Building, Phone: 836-6953, FAX: 836-7688  
Email: SocialWork@missouristate.edu

**Director:** Associate Professor Lola Butler, Ph.D.

**Professors:** John T. Pardeck, Ph.D.; Gregory Skibinski, Ph.D.

**Associate Professors:** Mary Ann Jennings, Ph.D.; Joan McClellan, Ph.D.; Anne B. Summers, D.S.W.

**Assistant Professors:** Stephen J. Brannen, Ph.D.; Susan Dollar, Ph.D.; Diane Elliott, L.C.S.W.; Frank Kauffman, Ph.D.; Glenda Short, Ph.D.

**Instructor:** Michele Garrison, M.S.W.

**Director of Field Education:** Catherine Hawkins, M.S.W., L.C.S.W.

**Supervisor of Clinical Experiences:** Michele L. Day, A.C.S.W., L.C.S.W.

**Accreditation:** Council on Social Work Education (CSWE) – Social Work, B.S.W., M.S.W.

## Major

### Social Work (Comprehensive) Bachelor of Social Work

The Social Work major prepares graduates for beginning generalist social work practice.

#### Admission to the Social Work Program

The admission procedure to the Bachelor of Social Work (BSW) program consists of a two-tier process (Initial Progression and Advanced Progression). To comply with the requirements of the criteria and procedures, students are expected to meet with their advisor at least once a semester and are encouraged to apply to the program as soon as possible. Students may contact their advisor with any questions related to the admissions process. The decision to admit a student to the Social Work Program will be based on a holistic picture of the completed course work and values that are consistent with the conduct of the profession and the National Association of Social Workers' Code of Ethics.

#### Initial Progression:

Students are eligible to apply for Initial Progression into the BSW program when the following conditions are met:

1. Completion of a minimum of 45 credit hours;
2. Completion of the Basic Required Courses for General Education except Writing II (i.e., IDS 110, CSC/CIS 101 or CSC 111, COM 115, ENG 110, MTH 130 or higher, PED 100);
3. Completion of Introduction to Social Work (SWK 212) with a minimum of a "C" grade;
4. Completion of Citizenship and Service Learning (CASL) one-credit course attached to one of three courses: Interviewing Skills in Generalist Social Work Practice (SWK 205), Introduction to Social Work (SWK 212), Human Diversity (SWK 219), **OR** a 40 hour volunteer experience in a human service agency completed within three years prior to application for admission. *Although SWK 300 is not required for admission, it is highly recommended. Those who take SWK 300 will be looked upon favorably in the BSW admissions process.* If students elect to make arrangements for their own volunteer experience, or plan to use an already completed experience, they must meet with their advisor to discuss the requirements of the volunteer program. Completion of 30 credit hours is a prerequisite of SWK 300.
5. A minimum combined GPA of 2.30; however, students must have a combined GPA of 2.50 prior to applying for Advanced Progression. Only students with a minimum combined GPA of 2.50 at the time of Initial Progression can be "Admitted." Students with a combined GPA between 2.30 and 2.50 can be "Admitted Conditionally" or "Denied."

#### Advanced Progression:

Students not "Admitted" during the Initial Progression must apply for Advanced Progression before being formally "Admitted." Students are eligible to apply under the following conditions:

1. A minimum combined GPA of 2.50

2. Completion of SWK Practice With Individuals (SWK 305)

3. A copy of the "Individual Student Plan for Conditional Admission", with evidence that the conditions specified on the plan have been met.

Students not fully "Admitted" will be *ineligible* to enroll in Social Work Practice in Communities and Organizations (SWK 430), the Practicum in Social Work (SWK 490) and its accompanying Social Work Integrative Seminar (SWK 480).

Students must understand that if they fail to meet the conditions described above by the time they have completed 75 credit hours, the amount of time required to complete their program may be extended to beyond the normal amount of time required for graduation.

Academic credit for life experience and previous work experience will not be given, in whole or in part, in lieu of the field practicum or any other social work course.

All social work students admitted to the Social Work Program under these conditions must attain a combined 2.50 GPA or higher at the time of graduation for all coursework completed at Missouri State. This program is accredited by the Council on Social Work Education. Additional information regarding the Social Work Program may be found in the **Social Work Student Handbook** available from the School of Social Work.

- A. General Education (see General Education section of catalog) Specific General Education Requirements: BIO 102(4) or BIO 121(4) or BMS 100(4) or 105(4) or 110(4); ECO 155(3) (or ECO 165 may be taken although it is **not** a general education course); PSY 121(3); SOC 150(3)
- B. Major Requirements
  1. SWK 205(3), 212(3), 219(3), 222(3), 305(3), 308(3), 309(3), 318(3), 322(3), 409(3), 420(3), 430(3), 480(3), 490(9) and two SWK electives (6).
  2. ECO 155(3) or 165(3); PSY 200(3) or SOC 302(3); PSY 304.
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Graduate Program

A Master of Social Work degree is offered. See the Graduate Catalog for details.

## Social Work Courses

**SWK 205 Interviewing Skills in Generalist Social Work Practice.** 3(3-0) F,S.

Prerequisite: SWK 212, 222 or concurrent enrollment. An introduction to basic interviewing skills based upon the purpose of and plan for the interview in the context of generalist social work practice. SWK 300 may be taken concurrently.

**SWK 212 Introduction to Social Work.** 3(3-0) F,S.

Prerequisite: ENG 110 and COM 115. This course is an introduction to the values, knowledge, and skills that guide the profession of social work. Examines practice interventions at the individual, family, group,

organization and community levels. The fields and settings for social work practice are discussed. SWK 300 may be taken concurrently.

**SWK 219 (319) Human Diversity.** 3(3-0) F,S.

Prerequisite: SWK 212, PSY 121, SOC 150. Content and skill development pertinent to working with diverse racial, cultural, ethnic, and other populations such as persons with physical disabilities and mental illnesses. This course is designed primarily to inform and sensitize individuals for effective interventions within a heterogeneous society. SWK 300 may be taken concurrently.

**SWK 222 Human Behavior and the Social Environment I.** 3(3-0) F,S.

Prerequisite: SOC 150; PSY 121; and one of the following: BIO 102, BIO 121, BMS 100, BMS 105 or BMS 110. SWK 212 may be taken concurrently. An introduction to the dynamics of human behavior and the effects of the social environment on the development of individuals and families.

**SWK 300. Service Learning in Social Work.** 1(0-2) F,S.

Prerequisite: 30 hours, concurrent registration in a social work course designated as a service learning offering (SWK 205, SWK 212, SWK 219). This service component for an existing course incorporates community service with classroom instruction to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization or human/social service agency. Approved settings will focus on populations-at-risk, diverse populations and groups that have experienced social and economic injustice. A list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation. Graded Pass/Not Pass only.

**SWK 305 (410) Social Work Practice with Individuals.** 3(3-0) F,S.

Prerequisite: SWK 205, 212, 219, 222, 300, PSY 304, Writing II and Initial Progression (initial admission) into the BSW program. Basic principles, practice theories and skill for beginning generalist practice with individuals. Integrates practice theory and intervention skills within the context of the Generalist Intervention/Problem-Solving model. The class emphasizes personal awareness, professional growth, critical thinking and skills practice.

**SWK 308 Social Justice.** 3(3-0) F,S.

Prerequisite: SWK 219 and 222; ECO 155 or 165 or equivalent; and PLS 101. The primary subject matter of this course is social and economic inequality in United States society. Students are introduced to the patterns and processes of social and economic inequality in its major forms: class, race/ethnicity, gender, and sexual and political orientation.

**SWK 309 Social Welfare Policy and Services I.** 3(3-0) F,S.

Prerequisite: SWK 308. This course examines the historical development and philosophical orientation of social welfare policy and services in the United States as well as introduces students to the development of social work as a profession. The course focuses on selected major social welfare policies and programs and the philosophical, economic, social and political forces that shape their development.

**SWK 310 Children's Rights.** 3(3-0) F,S.

A study of the role of the child in American society, and the value placed on children as evidenced by the rights accorded them. Children's rights to be studied include moral, legal, constitutional, civil, and human.

**SWK 318 Methods of Social Research in Social Work Practice.** 3(3-0) F,S.

Prerequisite: SWK 212 and 222; following prerequisites may be taken concurrently: SWK 219, SOC 302 or PSY 200 or equivalent. The application and use of the social scientific method for conducting research and applying research to social work practice including, but not limited to, single subject research design, treatment intervention evaluation, and program evaluation.

**SWK 320 Services for Women.** 3(3-0) D.

Examination of the multiple problems women experience, and needed community resources. Areas of study broadly include women and health, violence against women, women and socio-economic status.

**SWK 322 Human Behavior and the Social Environment II.** 3(3-0) F,S.

Prerequisite: SWK 212, 219, and 222. Exploration of a broad systems' approach to the generalist practice of social work. Focuses on the theories that support social work practice with groups, organizations, and communities.

**SWK 330 Substance Abuse Interventions.** 3(3-0) F,S.

Examinations of the problems of alcohol and chemical dependence. Areas of study broadly include definitions, prevalence, etiology, policies, effects on family and society, and prevention and treatment approaches.

**SWK 370 Child Welfare Services.** 3(3-0) F,S.

Develop beginning competence in assessing types and benefits of different child welfare services, (i.e., foster care, adoptions, institutionalization); examination of the impact of public policies and social work practice on children and families.

**SWK 397 (300) Special Topics.** 1-3 D.

Prerequisite: permission of instructor. Selected topics of contemporary interest in social work such as changing social welfare policy, specialized fields of social work, models of practice and future trends in social work. May be repeated to a total of 6 hours as topics change. Variable Content Course.

**SWK 409 Social Welfare Policy and Services II.** 3(3-0) F,S.

Prerequisite: SWK 305, 308, 309, 318, 322 and Final Progression (fully "Admitted") status into the BSW program. An introduction to the analytic, interactional, value clarification and political strategies necessary for policy analysis and implementation.

**SWK 420 Social Work Practice with Groups and Families.** 3(3-0) F,S.

Prerequisite: SWK 305, 322 and Initial Progression (initial admission) into the BSW program. Offers basic principles of group and family (G/F) interventions with a generalist practice foundation. Contrasts G/F with other forms of social work practice. Reviews skills required to conduct clinical and task groups. Overviews skills needed to work with families. Emphasizes cultural diversity and ethical parameters when offering G/F services.

**SWK 430 Social Work Practice in Communities and Organizations.** 3(3-0) F,S.

Prerequisite: SWK 409 and 420; Final Progression (fully "Admitted") status into the BSW program. Problem assessment and practice interventions with macrosystems. Examines strategies and techniques for social work practice with organizations and communities. Must be concurrently enrolled in SWK 480 and SWK 490.

**SWK 480 Social Work Integrative Seminar.** 3(3-0) F,S.

Prerequisite: SWK 219, 318, 322, 409, 420 and Final Progression (fully "Admitted") status into the BSW program. Must be concurrently enrolled in SWK 430 and 490. Examines student experiences, problems, and questions related to the practicum. Integrates theory, knowledge, social work values and skills from previous social work courses to prepare generalist social work practitioners. Failure to pass this course will result in failure to pass SWK 490.

**SWK 490 Practicum in Social Work.** 9(0-32) F,S.

Prerequisite: SWK 318, 219, 322, 409, 420 and Final Progression (fully "Admitted") status into the BSW program. Must be concurrently enrolled in SWK 430 and 480. An educationally directed social work practice experience with individuals, groups, families, communities and organizations in a social service agency. Students are required to work a minimum of 450 hours. A student who receives a not pass grade may repeat the course only with Field Education Committee approval. Failure to pass this course will result in failure to pass SWK 480. A student must perform at the "C" level or above in order to graduate with the BSW. A practicum liability insurance fee is required. Graded Pass/Not Pass only.

**SWK 496 (492) Directed Readings in Social Work.** 1-3, D.  
Prerequisite: 6 hours of social work and permission. Readings designed to supplement material introduced in previous social work courses. Includes a wide selection from literature in the field. May be repeated to a total of 9 hours.

**SWK 502 Rural Health.** 3(3-0) F,S. (Identical with NUR 502)  
Prerequisite: junior standing and permission of instructor. This course offers a study of health care delivery in rural communities. It includes theoretical foundations, cultural considerations and specific characteristics of rural environments and people. Local and international perspectives will be explored. This course has a community experience component. Cannot receive credit for both NUR 502 and SWK 502.

**SWK 597 Special Topics.** 1-3, D.  
Prerequisite: permission of the instructor. Selected topic of advanced content in social work, relevant to fields of practice or practice methodologies. May be repeated to a total of 6 hours as topics change.

*The following courses are open only to graduate students.*

**SWK 605 Human Behavior and Social Environment.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Content on life span development and the influence of various systems on the individual.

**SWK 610 Social Work Practice I.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Within a generalist framework, course provides an ethically-based, theory-driven, culturally competent approach to delivering professional social work services to individuals with varied issues and practice settings.

**SWK 615 Social Welfare Policy and Services.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Covers the historical development, philosophical orientation, and analysis of social welfare policy and services in the United States. Examines social welfare policy in multiple areas.

**SWK 620 Introduction to Social Work Research.** 3(3-0) S.  
Prerequisite: sequence schedules\*. Understanding of social research methods and application of research to social work practice. Incorporates content on evaluation of practice and program evaluation.

**SWK 625 Social Work Practice II.** 3(3-0) F.  
Prerequisite: see sequence schedules\*. Within a generalist framework, this course focuses primarily on groups and families, the basic skills required to facilitate group process and tasks, contrast between designed groups and family groups, and strategies for working with families.

**SWK 626 Social Work Practice III.** 3(3-0) S.  
Prerequisite: sequence schedules\*. Uses social work methods to focus on the dynamics associated with organizational and community generalist practice. This course provides a knowledge base (i.e., theory, research, and practice wisdom), values, and practice skills for the generalist social work profession. Concentration will be on social work practice occurring with organizations and communities.

**SWK 630 Human Diversity and Societal Systems.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Theoretical perspectives and research findings on various populations at risk and the role of societal institutions in perpetuating social and economic injustice.

**SWK 635 Field Instruction I.** 9(0-30) S.  
Prerequisite: concurrent with SWK 640 and sequence schedules\*. Supervised social work experience in a social agency in the community. Students must complete 450 hours. A practicum liability insurance fee is required.

**SWK 640 Practicum Seminar I.** 1(1-0) S.  
Prerequisite: concurrent enrollment in SWK 635 and sequence schedules\*. Examines student experiences and problems in Field Instruction I. Designed to enhance the student's integration of theory, knowledge, and skills from previous courses.

**SWK 641 Family Health and Domestic Violence.** 3(3-0) D.  
Prerequisite: graduate standing. Enhances students' understanding of the theories, policies, practices, and interventions related to family violence.

**SWK 642 Family Health and Substance Abuse.** 3(3-0) D.  
Prerequisite: graduate standing. This course provides an opportunity for the students to understand the problems of alcohol and drug use and dependence, and their impact on family health.

**SWK 643 Management and Program Development in Human Service.** 3(3-0) D.

Prerequisite: graduate standing and consent of instructor. Develop knowledge and skills for effective supervisors and administrators in human service organizations. Students will also learn grant proposal writing and develop an understanding of their management style and philosophy.

**SWK 645 Perspectives on Family Health Systems.** 3(3-0) Su.  
Prerequisite: sequence schedules\*. Examines impact of family system on individual well-being and development as well as human diversity issues affecting individuals and families. Includes research and theory that guide social work practice within a family health context.

**SWK 646 Foundations of Family Health Research.** 3(3-0) Su.  
Prerequisite: sequence schedules\*. This course builds on the knowledge base acquired in the BSW research course by reviewing social work research methods, as necessary, for the purpose of developing a research proposal from a family health perspective. The course includes research concepts and tools most frequently encountered by the family health social work practitioner.

**SWK 650 Human Behavior and Family Systems.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Provides a framework for understanding family systems and family health. The family is examined within an ecological context.

**SWK 654 Perspectives on Individual and Family Health Assessment.** 3(3-0) F.

Prerequisite: sequence schedules\*. Advanced overview to help the student transition from individually-focused assessment (e.g., DSM-IV) to family focused assessment (e.g., FAD).

**SWK 655 Family Health Social Work Practice I.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Knowledge and skills for advanced practice. Social work roles within different settings will be covered.

**SWK 656 Family Health Social Work Practice II.** 3(3-0) S.  
Prerequisite: sequence schedules\*. Advanced assessment and family centered practice interventions that are related to the family health perspective.

**SWK 660 Family Health Policy.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Assists students in understanding how policies affecting family health are designed. Provides an analysis of the family health care delivery systems in the United States and other countries.

**SWK 680 Field Instruction II.** 9(0-35) S.  
Prerequisite: concurrent with SWK 685 and sequence schedules\*. Continuation of practicum experience in a social agency focused on family health. Students must complete 525 hours. A practicum liability insurance fee is required.

**SWK 685 Practicum Seminar II.** 1(1-0) S.  
Prerequisite: concurrent with SWK 680 and sequence schedules\*. Examines student experiences and problems in Field Instruction II. Enhances the student's integration of theory, knowledge, and skills from previous courses.

**SWK 697 Research Project in Family Health Services.** 3(3-0) F.  
Prerequisite: sequence schedules\*. Advanced research project focused on student's area of family health interest. Student will be responsible for completing a publishable quality research document. This course meets the graduate college research requirement.

*\*Refer to sequence schedules under Degree Requirements in the Graduate College Catalog.*

## Department of Sports Medicine and Athletic Training

160 Professional Building, Phone: 836-8553, FAX: 836-8554  
Email: SportsMedicine@missouristate.edu

**Acting Department Head:** Assistant Professor Gary L. Ward, M.S.

**Academic Affiliates:** Erin L. Boydston, M.S.; Jeffrey S. Brinkman, M.S.; Katherine Brinkman, B.S.; Shannon Derricks, M.S.; Justin L. Ebert, B.S.; Allan J. Liggett, M.S.; Robin E. Meeks, M.S.; Ivan E. Milton, M.S.; James T. Penkalski, M.S.; Laura C. Ross, M.S.; Stephen P. Sawchak, M.S.

**Medical Director:** Richard A. Seagrave, M.D.

**Medical Advisors:** Bernard A. Griesemer, M.D.; Brian J. Mahaffey, M.D.

**Accreditation:** The Sports Medicine and Athletic Training program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Joint Review Committee on Educational Programs in Athletic Training.

Commission on Accreditation of Allied Health  
Education Programs  
35 East Wacker Drive Suite 1970  
Chicago, IL 60601-2208  
(312) 553-9355

### Major

#### Sports Medicine and Athletic Training (Comprehensive) Bachelor of Science

Admission to the Sports Medicine and Athletic Training Major is competitive and not all who apply can be accommodated. Admission requires each applicant to complete a process of application and selection for candidacy and meet retention standards prior to final acceptance into the Sports Medicine and Athletic Training Major. The application process for the major in Sports Medicine and Athletic Training is separate from the application process for admission to the University. Both application processes must be followed by students interested in the major.

##### I. Application Requirements:

- A. Before a student can be considered for candidacy, the following application requirements must be met:
  1. Admission to Missouri State University
  2. Completed application for Sports Medicine and Athletic Training Curriculum
  3. Written narrative response to application questions
  4. Submission of official transcripts of high school and college courses
  5. Three recommendations
- B. Application deadline is April 1 for consideration for each fall semester. Applicants will be notified of the selection committee's decision on or before April 1. New students are admitted beginning in the Fall semester each year.
- C. Application materials may be procured by contacting the Department of Sports Medicine and Athletic Training; Missouri State University; Professional Building 160; 901 S. National Ave; Springfield, MO 65897 or by downloading them from the departments' web site at [www.missouristate.edu/sportsmed/](http://www.missouristate.edu/sportsmed/). All completed materials must be returned to the Department Office on or before the April 1 deadline for fall enrollment consideration.

##### II. Preliminary Selection Process for Candidacy Phase:

- A. All applicants will be ranked using a numerical scale on the following criteria:
  1. Cumulative high school or college GPA (4.00 point scale)
  2. GPA in sciences and sports medicine related course work (4.00 point scale)
  3. Rank in class
  4. ACT score
  5. Previous athletic training/sports medicine experience
  6. Strength of applicant's knowledge of AT profession and career goals reflected in narrative.

7. Extra curricular and leadership activities
  8. Strength of support from others as shown in recommendations
- B. Students receiving the highest scores in the rating process and a positive recommendation from the selection committee will be invited to enter the candidacy phase of the major. These same students will be granted permission to enroll in the ATC 220 "Introduction to Athletic Training" course for the Fall semester.
  - C. Applicants not invited to enter the candidacy phase may reapply the following year. All applicants who eventually re-apply must meet all requirements in effect at the time of application. Students are encouraged to contact the department for current admission requirements.
  - D. All students selected for the candidacy phase of the program must provide evidence of being able to meet the technical standards of the program. Only those students who verify that they can meet those technical standards, with or without reasonable accommodations, will be allowed to enter the candidacy phase of the program. The technical standards for the program are available upon written request or may be viewed at the department's web site at [www.missouristate.edu/sportsmed/](http://www.missouristate.edu/sportsmed/).
  - E. Students will be required to initiate and pay for any security checks and drug screenings required for clinical agencies. Candidacy students must initiate a criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit licensure as an athletic trainer.
  - F. All students are expected to provide their own transportation to clinical sites.
  - G. All students will be required to purchase student professional liability insurance.

##### III. Final Selection Process Following Candidacy Phase:

- A. Following the second semester of the candidacy phase students will be selected to continue in the Sports Medicine and Athletic Training major. Final selection will be determined based on following criteria:
  1. Academic Performance/Clinical Checklist
    - a. Cumulative university GPA of 2.80
    - b. A grade of "B" or better in ATC 220 and 221 and a grade of "C" or better in BMS 307
    - c. Satisfactory completion of the "Clinical Competency Evaluation Checklist"
  2. Clinical Evaluations
    - a. Students are required to complete a series of clinical rotations (4) during the candidacy phase of the program. In doing so they are formally evaluated by the Approved Clinical Instructors (ACI's) at each rotation. Clinical per-

formance is critiqued on areas involving both "Skills/Abilities" and "Personal Attributes." A Likert scale is used in this process.

#### IV. Retention Requirements:

- A. After students are selected into the Sports Medicine and Athletic Training Major, retention in the program will be based on the following criteria:
  1. Clinical evaluation score of at least 3.0 on each clinical assignment. Clinical performance is critiqued by the ACI's on areas involving both "Skills/Abilities" and "Personal Attributes." A Likert scale is used in the process.
  2. Maintain a major coursework GPA of 3.00.
  3. Semester GPA of 2.80 or higher and a cumulative University GPA of 2.80 or higher.
  4. Satisfactory completion of all assigned "Clinical Proficiencies Checklists".
- B. Students who fail to meet all of the retention requirements will be placed on probation in the Sports Medicine and Athletic Training major for one semester. If standards are not met by the end of the probationary period, the student will be dismissed from the major. Students who receive a grade of "D" or "F" in an ATC course must repeat that course and receive a grade of "C" or higher to remain in the major. Students who do not meet the retention criteria for required clinical work may follow the program appeal process. Failure to follow the appeal process may result in dismissal from the program.

#### V. Sports Medicine and Athletic Training Requirements:

Students selected for the program must complete all required coursework and clinical requirements. Those requirements include the following:

- A. General Education (see General Education section of catalog) Specific General Education Requirements BIO 121(4) or BMS 110(4); CHM 105(5) or 160(4); PSY 121(3)
- B. Major Requirements
  1. Related Requirements: BMS 240(3), 307(4), 308(4), 430(3); PED 360(4), 362(4); PSY 200(3)
  2. Athletic Training Requirements: ATC 220(4), 221(3), 222(4), 240(2), 241(2), 320(3), 324(4), 326(3), 328(3), 329(3), 330(3), 340(2), 341(2), 420(3), 421(4), 425(2), 440(2), 441(2)
  3. Upon acceptance into the major, students will be required to fulfill six (6) semesters of clinical experiences. Students must receive a clinical evaluation score of 3.0 or higher for each experience. All students will be required to complete the following clinical experiences:
    - a. One fall season of interscholastic or intercollegiate football
    - b. Two semesters assigned to University intercollegiate team experiences
    - c. One semester at an affiliated sports medicine clinic
    - d. One semester at an affiliated high school
    - e. Two additional semester long clinical assignments in settings to be determined by the Sports Medicine and Athletic Training Steering Committee.
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of the catalog)

## Athletic Training Courses

### ATC 220 Introduction to Athletic Training. 4(3-2) F.

Prerequisite: completed application to the Athletic Training program and permission. Orientation for students considering a career in Athletic Training. Various aspects of the Athletic Training profession and the Athletic Training program at Missouri State are discussed.

### ATC 221 Clinical Skills in Athletic Training. 3(0-6) S.

Prerequisite: ATC 220. Students are introduced to many of the clinical skills required by athletic trainers in a variety of clinical settings. Skills are designed to meet current accreditation competencies and standards.

### ATC 222 Athletic Injuries. 4(3-2) or 2(2-1) F,S.

Prerequisite: BMS 307 or equivalent. Techniques, principles and theory underlying prevention and care of athletic injuries. Four-credit hour course to include neuroanatomy and is required for Sports Medicine and Athletic Training majors only. Course may be taken once for credit.

### ATC 223 Athletic Training Practicum I. 3, F.

Prerequisite: ATC 220 and permission. Introduction to supervised clinical experiences in Athletic Training. Students administer to varsity athletes and patients in the Sports Medicine Clinic, under the supervision of NATA certified athletic trainers. Supervised hours acquired during this course will apply toward the 1200 directly supervised hour requirement.

### ATC 240 Clinical Practicum I. 2(1-2) F.

Prerequisite: ATC 221. Supervised clinical experiences in athletic training. Students administer to athletes involved in fall sports or other physically active individuals. Emphasis on developing clinical skills required by athletic trainers. Students may be required to be in attendance during periods when regular university classes are not in session.

### ATC 241 Clinical Practicum II. 2(1-2) S.

Prerequisite: ATC 221, ATC 240. Continuation of supervised clinical experiences in athletic training. Students administer to athletes involved in spring sports or other physically active individuals. Emphasis on developing and refining clinical skills required by athletic trainers. Students may be required to be in attendance during periods when regular university classes are not in session.

### ATC 297 Special Topics. 1-2, D.

Prerequisite: permission of program director. Variable content and variable credit course. Special study of Sports Medicine and Athletic Training. May be repeated for credit to a maximum of 4 credit hours. Same topic may be repeated once for credit.

### ATC 320 Athletic Training Administration. 3(3-0) F.

Prerequisite: ATC 326 and permission of program director. Development and administration of various procedures, records, forms, budgets, and professional contacts needed to successfully manage an athletic training program.

### ATC 323 Athletic Training Practicum II. 3, S.

Prerequisite: ATC 223, ATC 328 or ATC 329 and permission. A continuation of ATC 223 with emphasis on injury evaluations and initiation of rehabilitation programs. Students administer to varsity athletes and patients in the Sports Medicine Clinic under the supervision of NATA certified athletic trainers. Supervised hours acquired during this course will apply toward the 1200 directly supervised hour requirement.

### ATC 324 Therapeutic Modalities 4(3-2) S.

Prerequisite: BMS 308 with a "C" grade or better and permission of program director. A study of the theory and application of various therapeutic modalities used in the treatment of many athletic injuries, including ultrasound, diathermy, electrical stimulation, hydrotherapy, cryotherapy, and thermotherapy.

### ATC 326 Therapeutic Interventions in Athletic Training. 3(3-0) S.

Prerequisite: ATC 330, BMS 308, PED 257, PSY 121. Theoretical and practical synthesis of area often requiring instruction on the part of an athletic trainer to enhance performance opportunities for athletes and other areas of physical activity. Emphasis on subject matter and skills necessary to recognize potential problems, help in understanding the interventions, and develop techniques for referral.

### ATC 328 Athletic Injury Assessment Techniques-Lower Body. 3(2-2) F.

Prerequisite: ATC 222; BMS 308 and PED 360 with grades of "C" or better. This course is designed for individuals seeking National Athletic Trainer's Association (NATA) certification. Content addresses observation and evaluation techniques for athletic injuries to the lower body. Students must integrate anatomical structures to provide a basis for critical decision making in an injury management environment.

### ATC 329 Athletic Injury Assessment Techniques-Upper Body. 3(2-2) S.

Prerequisite: ATC 328, BMS 308. This course is designed for individuals seeking National Athletic Trainer's Association (NATA) certification. Content addresses observation and evaluation techniques for athletic

injuries to the upper body. Students must integrate anatomical structures to provide a basis for critical decision making in an injury management environment.

**ATC 330 Surgical Pathology in Sports Medicine.** 3(3-0) F.

Prerequisite: BMS 308 and PED 360 with grades of "C" or better and permission of program director. An overview of orthopedic surgical procedures utilized with sport-related injuries. Focus will be primarily on joint and musculo-skeletal structures commonly injured in athletic activities. Tissue pathology for each protocol, healing constraints, and implications for return to activity will be presented.

**ATC 340 Clinical Practicum III.** 2(1-2) F.

Prerequisite: ATC 221, ATC 240, ATC 241. Continuation of supervised clinical experiences in athletic training. Students administer to athletes involved in fall sports or other physically active individuals. Emphasis on developing clinical decision making skills used by athletic trainers. Students may be required to be in attendance during periods when regular university classes are not in session.

**ATC 341 Clinical Practicum IV.** 2(1-2) S.

Prerequisite: ATC 221, ATC 240, ATC 241, ATC 340. Continuation of supervised clinical experiences in athletic training. Students administer to athletes involved in spring sports or other physically active individuals. Emphasis is on refining clinical decision making skills used by athletic trainers. Students may be required to be in attendance during periods when regular university classes are not in session.

**ATC 397 Special Topics.** 1-2, D.

Prerequisite: permission of program director. Variable content and variable credit course. Special study of Sports Medicine and Athletic Training. May be repeated for credit to a maximum of 4 credit hours. Same topic may be repeated once for credit.

**ATC 420 Medical Aspects of Athletic Training.** 3(3-0) S.

Prerequisite: ATC 324, ATC 326, ATC 421, and permission of program director. Students are exposed to various medical specialties which contribute to a comprehensive athletic health care program. Topics stressed include injury and illness prevention, definitive medical treatment, indications for referral, and injury rehabilitation from the perspective of health care specialists in the community.

**ATC 421 Therapeutic Exercise.** 4(3-2) F.

Prerequisite: ATC 324, ATC 329, ATC 330, PED 360, and PED 362 with grade of "C" or better, and permission of program director. A study of the ways therapeutic exercise can be applied to the treatment of various athletic injuries, including modes of strength and flexibility improvement, facilitation techniques, and postoperative exercises.

**ATC 423 Athletic Training Practicum III.** 3, F.

Prerequisite: ATC 323, ATC 328, ATC 329, and permission. A continuation of ATC 323 with an emphasis on independent training assignments to specific team sports and tournaments. Students administer to

varsity athletes and patients in the Sports Medicine Clinic under the supervision of NATA certified athletic trainers. Supervised hours acquired during this course will apply toward the 1200 directly supervised hour requirement.

**ATC 425 Contemporary Topics in Athletic Training.** 2(2-0) S.

Prerequisite: ATC 421, PSY 200, and permission of program director. Discussion of current issues and problems facing the athletic training profession.

**ATC 440 Clinical Practicum V.** 2(1-2) F.

Prerequisite: ATC 221, ATC 240, ATC 241, ATC 340, ATC 341. Continuation of supervised clinical experiences in athletic training. Students administer to athletes involved in fall sports or other physically active individuals. Emphasis on developing critical thinking skills associated with injury rehabilitation used by athletic trainers. Students may be required to be in attendance during periods when regular university classes are not in session.

**ATC 441 Clinical Practicum VI.** 2(1-2) S.

Prerequisite: ATC 221, ATC 240, ATC 241, ATC 340, ATC 341, ATC 440. Continuation of supervised clinical experiences in athletic training. Students to be assigned to a clinical setting involving intercollegiate, high school, or recreational athletes. Emphasis is on refining critical thinking skills associated with injury assessment, management, and rehabilitation. Students may be required to be in attendance during periods when regular university classes are not in session.

**ATC 497 Athletic Training Seminar.** 1-3, F,S.

Prerequisite: ATC 221, ATC 222, a 2.75 cumulative GPA, and permission of program director. This course offers a concentration in subject matter to improve skill and knowledge in specific areas. Each workshop or seminar will be concerned with a single topic. Number of class hours is determined by length and specificity of workshop/seminar. Thirty clock hours equal one semester hour. May be repeated for a maximum of 3 credit hours.

**ATC 498 Research Projects in Athletic Training.** 1-3 F,S.

Prerequisite: ATC 328, ATC 329, a 3.00 cumulative GPA, and permission of program director. This course provides an opportunity to enhance research skills within a specific topic area of athletic training. The student would conduct a research project under faculty supervision. May be repeated for a maximum of 3 credit hours.

**ATC 499 Independent Study in Athletic Training.** 1-3 F,S,Su.

Prerequisite: ATC 221, ATC 222, a 2.75 cumulative GPA, and permission of program director. This course provides opportunities to pursue specific subject areas in Athletic Training. The independent study may be a reading project or a practical application of theories under faculty supervision. May be repeated for a maximum of 3 hours of credit.

## College of Humanities and Public Affairs

251 Strong Hall, Phone: 836-5529, FAX: 836-8472

Email: [CollegeofHumanitiesandPublicAffairs@missouristate.edu](mailto:CollegeofHumanitiesandPublicAffairs@missouristate.edu)



Strong Hall.

**Dean: Professor Lorene H. Stone, Ph.D.**

**Associate Dean: Professor Victor H. Matthews, Ph.D.**

The College of Humanities and Public Affairs includes:

**Department of Defense and Strategic Studies**

**Department Head:** Professor Keith B. Payne, Ph.D.

9302 Lee Highway Suite 760

Fairfax, VA 22031

Phone: (703) 218-3565

**Department of Economics**

**Department Head:** Professor E. Dale Wasson, Ph.D.

351 Strong Hall, Phone 836-5516

**Department of History**

**Department Head:** Associate Professor Mahua Barari, Ph.D.

410 Strong Hall, Phone 836-5511

**Department of Military Science**

**Department Head:** Professor LTC Brendan McKiernan, M.B.A..

28 Freudenberger House, Phone 836-5791

**Department of Philosophy**

**Department Head:** Associate Professor Pamela R. Sailors, Ph.D.

231 Strong Hall, Phone 836-5650

**Department of Political Science**

**Department Head:** Professor Beat R. Kernén, Ph.D.

307 Strong Hall, Phone 836-5630

**Department of Religious Studies**

**Department Head:** Professor James C. Moyer, Ph.D.

251 Strong Hall, Phone 836-5514

**Department of Sociology, Anthropology and Criminology**

**Department Head:** Professor Karl R. Kunkel, Ph.D.

451 Strong Hall, Phone 836-5640

**Area Studies Programs**

**Administrator:** Professor Victor H. Matthews, Ph.D.

251 Strong Hall, Phone 836-5529

**African American Studies**

**Asian Studies**

**Gender Studies**

**Latin American Studies**

**Law and Society**

**Middle Eastern Studies**

**Native American Studies**

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## Centers for Research and Service

### **Bureau of Economic Research**

The Bureau serves as a depository of economic data relevant to the Ozarks region. It distributes that information to interested parties to encourage economic research and to stimulate interest in special projects.

### **Center for Archaeological Research**

The Center is designed to study, record, and share knowledge of past cultures as well as conduct research studies for various private and public agencies. The information from archaeological research is then disseminated through a variety of scholarly outlets and educational programs.

### **Center for Social Sciences and Public Policy Research**

The CSSPPR is an interdisciplinary center where faculty and students conduct both applied and theoretical research in the social sciences and humanities. The Center conducts research for community and government organizations on a variety of issues of local, state, and national concern. The Center's research efforts are motivated by a desire to improve both understanding and the ability to create effective policy.



## Area Studies Programs

207 Strong Hall, Phone 836-5529, FAX: 836-8472

Email: [CollegeofHumanitiesandPublicAffairs@missouristate.edu](mailto:CollegeofHumanitiesandPublicAffairs@missouristate.edu)

**Administrator:** Professor Victor H. Matthews, Ph.D.

### General Information

A variety of interdisciplinary programs and courses are offered outside of the standard academic departments and they are administered through the Associate Dean of the College of Humanities and Public Affairs. Each program is governed by a faculty committee that is responsible for course and program content.

The following programs are offered: African American Studies, Law and Society, Asian Studies, Gender Studies, Latin American Studies, Middle Eastern Studies, and Native American Studies. Courses are offered in African American Studies (AAS) and in Gender Studies (GST).

### General Education Courses

AAS 100 may be used to satisfy the Humanities Perspective of the Culture and Society Area of Inquiry in General Education. GST 170 may be used to satisfy the Social/Behavioral Perspective of the Self-Understanding Area of Inquiry in General Education.

## Minors

### African American Studies

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Social Work

The minor includes AAS 100, plus at least 15 hours of additional course work for a total of at least 18 hours with a minimum grade point average of 2.50 in all courses counted toward the minor. At least 3 hours in each of the following 4 areas must be completed as part of the minor. It is recommended that AAS 100 be taken prior to undertaking all other courses included as options in the African American Studies Minor.

A. AAS 100

B. Complete 3 hours in each area:

1. Historical Foundations: HST 331, 332
2. Pan-African Background and Perspectives: ENG 363; GRY 507; HST 323, 335; PLS 550
3. Arts and Humanities: ART 273; ENG 355, 455; REL 365
4. Politics and Society: CRM 415; HST 531; REL 345; SOC 336; SWK 219

A student cannot take more than 6 hours in a particular discipline to complete the Minor; exceptions must have the permission of the Administrator. A student can petition to apply a variable content/special topic course to the Minor, with the approval of the Administrator. Such variable content/special topics courses might include: AAS 397, 497; ANT 330; REL 397.

**Administration of the program.** Courses must be approved by the faculty of the African American Studies Committee for inclusion in the minor. The Administrator must approve the course of study for each student who wishes to complete an African American Studies Minor.

### Asian Studies

#### Bachelor of Arts

#### Bachelor of Science

A. Six hours of an Asian language, the University currently offers Chinese (CHI 101, 102, 201, 202) and Japanese (JPN 101, 102, 201, 202)

B. Complete twelve hours from the following areas, with no more than six hours from any one category:

1. HST 380, 381, 571
2. REL 210, 355, 360
3. ART 274; ENG 362\*; LLT 215; PHI 314
4. GRY 305\*; PLS 545

*\*when applicable*

**Administration of the program.** Courses must be approved by the faculty of the Asian Studies Committee for inclusion in the minor. The administrator of the program must approve the course of study for each student who wishes to complete an Asian Studies Minor.

## Gender Studies

### Bachelor of Arts

### Bachelor of Science

### Bachelor of Science in Education

### Bachelor of Science in Nursing

### Bachelor of Social Work

The minor in Gender Studies requires a total of at least 18 hours with a minimum grade point average of 2.50 in all courses counted toward the minor.

A. GST 170 or PSY 355 or PSY 356 or SOC 290

B. Complete 15 hours from the following areas with at least 3 hours from each area and no more than 6 hours from each discipline (course prefix):

1. Arts and Letters: ART 378; COM 307; ENG 380, 580
2. Humanities and Public Affairs: CRM 410; ECO 315 or GST 315; GST 326, 400; HST 319, 320, 321, 323; PHI 319; PLS 319, 517; REL 370; SOC 290
3. Health and Human Services: CFS 300; GER 320; NUR 327; PED 402, 405; PSY 307, 355, 356; SWK 320

**Administration of the program.** Courses must be approved by the faculty of the Gender Studies Committee for inclusion in the minor. The administrator of the program must approve the course of study for each student who wishes to complete a Gender Studies Minor.

## Latin American Studies

### Bachelor of Arts

### Bachelor of Fine Arts

### Bachelor of Science

### Bachelor of Social Work

The Latin American Studies program provides a minor course of study that offers the opportunity to study the Latin American nations from an interdisciplinary perspective, which emphasizes critical approaches to the study of history, political systems, social structures, economic development, and literary and artistic expression of the region. In addition, the increasing importance of the Hispanic migration into the United States makes this program very relevant to modern American culture and political institutions. Students who earn this minor will be better prepared for careers in international business, public service, human resources, and graduate studies in history, political science, and public administration.

A. Complete 6 hours of a Latin American language: Portuguese (PTG 101, 102) or Spanish (SPN 101, 102, 201, 202)

B. Complete 12 hours from the following areas including at least 3 hours from at least three of the following areas, and no more than 6 hours from any one category:

1. Historical Studies: HST 350, 397\*, 492\*, 587, 588
2. Geography and Politics: GRY 305\*; PLS 339, 348
3. Art, Culture, Religion, and Society: ANT 330\*, 331; ART 273, 385, 485, 496\*, 598\*; REL 397\*; SOC 336
4. Language and Literature: ENG 354\*, 362\*; LLT 197\*, 296\*; PTG 297\*; SPN 297\*, 315, 320, 325, 326, 360

*\*when applicable – Students can petition to apply a variable content/special topic course to the minor, upon approval of the Administrator a maximum of 3 hours of these variable content/special courses may be used.*

NOTE: A student cannot take more than 6 hours in a particular discipline to complete the minor; exceptions must have permission of the Administrator.

**Administration of the program.** Courses must be approved by the faculty of the Latin American Studies Committee for inclusion in the minor. The administrator must approve the course of study for each student who wishes to complete the Latin American Studies Minor.

## Law and Society

### Bachelor of Arts

### Bachelor of Science

The Law and Society Minor is a 21-hour program of study with nine credit hours required in the core and an additional twelve credit hours of designated electives. No more than two courses with the same course prefix will count toward the minor.

- A. Core Courses (9 hours): SOC 380(3); PHI 340(3); and PLS 515(3) or 517(3) or 519(3) or HST 565(3)
- B. Complete twelve (12) hours from: AGB 314(3); ECO 435(3); JRN 407(3); PHI 345(3); PLN 570(3); PLS 551(3); RIL 231(3), 537(3); SWK 310(3); and CRM 210(3) or PLS 451(3) or PSY 320(3)

**Administration of the program.** Courses must be approved by the faculty of the Law and Society Committee for inclusion in the minor. The Administrator must approve the course of study for each student who wishes to complete the Law and Society Minor.

## Middle Eastern Studies

### Bachelor of Arts

### Bachelor of Science

The Middle Eastern Studies Program provides a minor course of study allowing students to concentrate their efforts in the study of the peoples, cultures, history, geography, languages, and religions of the modern Middle East. With the increased emphasis being placed on International Studies, world markets, and diversity awareness, the College of Humanities and Public Affairs has created a minor in Middle Eastern Studies. Students who earn this minor will be better prepared for careers in international business, public service, human resources, and graduate studies in history, political science, public administration, and religious studies.

- A. HST 370 and HST 371; **or** PLS 544
- B. Complete twelve hours from the following areas, with no more than six hours from any one category:
- HST 372, HST 543
  - REL 330, REL 350, REL 397\*, ART 382
  - HBW 101, HBW 102, HBW 201, HBW 202; LLT 197\*
  - GRY 305\*, PLS 346, ANT 335, SOC 397\*
- \*when applicable*

**Administration of the program.** Courses must be approved by the faculty of the Middle Eastern Studies Committee for inclusion in the minor. The administrator of the program must approve the course of study for each student who wishes to complete a Middle Eastern Studies minor.

## Native American Studies

### Bachelor of Arts

### Bachelor of Fine Arts

### Bachelor of Science

The Native American Studies Program is an interdisciplinary minor course of study allowing students to concentrate on the history, arts, and cultures of native peoples of the Americas. The minor in Native American Studies offers a multidisciplinary exploration of the history, arts, and cultures of the first Americans, past and present. It can be an excellent complement to many majors, including art, history, and anthropology. The knowledge provided will be valuable if not essential in any career that involves working with Native Americans in business, social services, public administration, or health and medicine. The minor will also stimulate awareness and appreciation of the ethnic and cultural diversity of the United States, which is an increasing concern in the workforce and society today, as well as the importance of cultural heritage.

- A. Complete 18 hours from the following courses and from at least three disciplines (course prefix), with no more than nine hours from any one discipline: ANT 325, ANT 330\*, ANT 360, ANT 425, ANT 451\*, ANT 453\*, ANT 454\*, ANT 490\*, ART 273, ART 385, ART 485, ART 496\*, ENG 354\*, GRY 305\*, GRY 597\*, HST 397\*, HST 509, HST 510, REL 315
- B. Other courses (e.g., special topics, transfer) may be applied with the approval of the Administrator.
- \*when applicable*

**Administration of the program.** Courses must be approved by the faculty of the Native American Studies Committee for inclusion in the minor. The administrator of the program must approve the course of study for each student who wishes to complete a Native American Studies minor.

## African American Studies Courses

**AAS 100 Introduction to African American Studies.** 3(3-0) F,S. The course provides a multidisciplinary introduction of the many dimensions of the African American experience, including the African heritage and diaspora, slavery and freedom, African American artistic and literary expression, and the problem of racism in American society.

**AAS 397 Topics in African American Studies.** 1-3, D. Prerequisite: AAS 100 or permission of instructor. Topics of general interest in the area of African American Studies. Examples: African Independence, Negritude, Harlem Renaissance, 1960s Civil Rights Movement, the Black Panther Party, Nation of Islam in the U.S., Afrocentricism, and African/African American Destiny. May be repeated, as topics change, to a maximum of 6 hours. Variable Content Course.

**AAS 497 Directed Reading.** 1-3, D. Prerequisite: 6 hours in African American Studies or permission. Analysis of various topics in African American Studies not covered in regular courses. May be repeated for a maximum of 6 hours, provided that the topic is different.

## Gender Studies Courses

**GST 170 Sex, Gender, and Self.** 3(3-0) F,S. An introduction to Gender Studies that explores the influence that ideas about sex, gender, and gender roles have on women and men, both as individuals and as social beings. Using new research on gender in many disciplines, it examines representations of male and female experiences, and historical and social constructions of women's and men's roles.

**GST 315 The Economics of Gender.** 3(3-0) D. (Identical with ECO 315)

Prerequisite: ECO 165 or permission of instructor. This course teaches students to analyze the economic decisions made by both males and females in two main areas: the labor market and the household. Specific areas of inquiry include the following: the family as an economic unit, gender differences in labor force participation, occupational gender segregation, explanations for gender earnings differentials and efforts to reduce such differentials, gender earnings discrimination, and international gender issues. Cannot receive credit for both ECO 315 and GST 315.

**GST 326 Feminist Theories of Social Order.** 3(3-0) S. (Identical with SOC 326)

Prerequisite: SOC 150 or GST 170. This course offers an introductory survey of feminist theories within a sociological framework. We will read and discuss significant classical and contemporary feminist writings on how social life is organized, maintained or changed. The feminist literature has led to the emergence of diverse theoretical frameworks analyzing historical and contemporary, macro and micro, public and private, local and global issues and concerns. The feminist paradigm, like many other paradigms, is inclusive of many disciplines. The sociological writings within this paradigm provide a wealth of materials on alternative views of social organization, order and conflict. Cannot receive credit for both GST 326 and SOC 326

**GST 400 Gender in Global Community.** 3(3-0) F. Prerequisite: SOC 150 or GST 170 or permission. This course will explore the effects of an integrated global community on gender; how global trends are gender-based in terms of labor market participation, resource allocation, family regulations, health care, crime, war and regional politics. We will discuss how events and policies in one part of the globe affect gender relations in another region. May be taught concurrently with SOC 600. Cannot receive credit for both GST 400 and SOC 600.

**GST 497 (IDS) Special Topics in Gender Studies.** 1-3, F,S. Prerequisite: GST 170 and admission to the Gender Studies program or permission. In-depth inquiry into selected topics of Gender Studies. May be repeated to a maximum of 6 hours if the topic is different.

## Department of Defense and Strategic Studies

9302 Lee Highway Suite 760, Fairfax, Virginia 22031, Phone (703) 218-3565  
Email: DefenseandStrategicStudies@missouristate.edu

**Department Head:** Professor Keith B. Payne, Ph.D.

**Associate Professor:** Bradley A. Thayer, Ph.D.

**Assistant Professor:** C. Dale Walton, Ph.D.

**Emeritus Professor:** William R. Van Cleave, Ph.D.

### Graduate Program

The Master of Science Degree offers a major in Defense and Strategic Studies. See the Graduate Catalog for details.

### Defense and Strategic Studies Courses

**DSS 201 Introduction to International Security.** 3(3-0) D.

The objective of this lecture course is to introduce the non-specialist undergraduate to the basic themes, issues, terminology, concepts, and recent development of American international security policy, defense policy, and diplomacy. The course will be taught by a professor as a lecture series and will include two 3-week intensive seminars on important current issues from a list of available topics. Course Fee.

**DSS 301 (400) Nuclear Strategy & U.S. National Security Policy.** 3(3-0) F,S.

This course provides an overview of American defense policies, concepts, and problems related to nuclear weapons since World War II. It also provides an introduction to strategy, deterrence, defense, arms control, and defense planning. Theories and concepts are compared with actual experience and real world planning considerations. Comparative Russian and Soviet policies and strategic concepts are covered. Strategic and arms control relationships and developments among the nuclear powers, with emphasis on the current situation, are also covered. Course Fee.

**DSS 401 U.S. International Security Problems.** 3(3-0) F,S.

This course examines international and regional security problems on a global basis, with an emphasis on U.S. interests, policies, and strategies. It starts with a review of containment, forward defense, and extended deterrence concepts, policies and issues as they have evolved since World War II. Alliance relationships, regional conflicts, and security threats are then examined with emphasis on contemporary problems and policies. Multilateral and regional (non-Superpower) arms control efforts are reviewed. Finally, trends and developments that may affect future security policies are discussed. Course Fee.

**DSS 496 Directed Reading and Research in Defense & Strategic Studies.** 1-3, F,S.

Prerequisite: DSS 201 or DSS 301 or DSS 401. Individually tailored directed reading or research for undergraduate students. For improvement of research skills; for the purposes of a broader background of knowledge; for more depth in selected areas of specialization. May be repeated for credit to a maximum of 3 credit hours. Course Fee.

**DSS 501 Seminar on Nuclear Strategy & Arms Control.** 3(3-0) F,S.

Prerequisite: permission of instructor. This seminar examines contemporary U.S. and Soviet/Russian strategic nuclear arms and arms control policies and their interaction. The seminar will review the U.S.-Soviet nuclear relationship and extend this to an examination of post-USSR Russian and American nuclear strategy and policy. The seminar will study the strategic nuclear balance, including specific problems and programs, and the strategic doctrine, concepts, and objectives of the nuclear powers. Nuclear arms control, including the processes of decision making and negotiating, will be examined, with an emphasis on comparing theory and practice. Course Fee.

**DSS 502 Seminar on International Security Affairs.** 3(3-0) F,S.

Prerequisite: permission of instructor. This seminar examines international and regional security problems and policies, from both a regional and global perspective. It treats strategies and security problems from a broader viewpoint than the Seminar on Strategy and Arms Control, covering alliance relationships, regional threats and the security policies of other states. (The focus of this seminar will generally be non-European.) While international security problems are studied on a regional basis, patterns of global strategic competition will be explored. Militarily, theater, general purpose, and power projection forces and strategies are emphasized over strategic nuclear forces. Course Fee.

**DSS 503 Analysis of International Security Politics.** 3(3-0) D.

Prerequisite: permission of instructor. This course deals with the methods and techniques of collecting and assessing information for use in the study of international security politics, problems, and policies. It explores the measures of relative power among nations and the manner in which such power or lack of it shapes the capability of a nation effectively to act in the international sphere. Course Fee.

**DSS 504 The Geopolitics of Conflict and Accommodation.** 3(3-0) F.

Prerequisite: permission of instructor. The application of the techniques and understanding lent by the geography to the illumination of the physical and social environment in which politics, strategy, and war take place. The relationship among geography, strategy, and politics is studied through the examination of both historical and contemporary circumstances where geography has intruded on politics or politics on geography. Students will be introduced to the geopolitical concepts of sea power, land power and air power, and these concepts will be critiqued in light of recent technological changes in warfare. Course Fee.

*The following courses are open only to graduate students.*

**DSS 600 Strategy & U.S. Defense Policy.** 3(3-0) F,S.

Prerequisite: permission of instructor. This course provides an examination of the basic concepts and issues of strategy, deterrence, defense, and arms control, and an overview of American defense policies, programs, and problems since World War II. Comparative Soviet/Russian strategic concepts, policies, and objectives are covered. The U.S.-USSR strategic balance and relationships, including arms control are examined on an introductory basis. Course Fee.

**DSS 602 Seminar on Regional Security Problems.** 3(3-0) D.

Prerequisite: DSS 501, and DSS 502, and DSS 600; or their equivalents as approved by the instructor. This seminar provides an advanced and in-depth analysis of selected contemporary regional security problems outside of Western Europe. It focuses on a few critical conflict situations, analyzes threats to regional and to U.S. interests, and examines alternative strategic policies and actions, including military force requirements, for the states involved. Course Fee.

**DSS 603 Science, Technology, and Defense Policy.** 3(3-0).

Prerequisite: permission of instructor. This course, which will be taught jointly with a qualified physical scientist, will cover four broad topics important to advanced work in DSS: basic principles and applications of defense science and technology; such as nuclear weapons effects, ballistic missiles, and strategic defenses; the influence of science and technology on defense programs and policies; the role of the scientific

and technical community in defense policy; and current issues of defense science and technology. Course Fee.

**DSS 604 Arms Control: Theory and Practice.** 3(3-0).

Prerequisite: permission of instructor. An examination of contending arms control theories and concepts as tested by postwar and contemporary experience, bilateral and multilateral. There will be in-depth analysis of American and Soviet approaches to arms control, as well as consideration of the arms control policies of other states. The course will study scientific and technical problems in arms control, including those of R and D, testing, production, and deployment; arms negotiations, and issues in verification and compliance. Course Fee.

**DSS 605 NATO Security Issues.** 3(3-0).

Prerequisite: permission of instructor. After an examination of the history of NATO policies, defense policies, and security issues, emphasis will be placed on analysis of current NATO security problems and options, including specific military defense alternatives. The individual security policies of the U.S., UK, FRG, and France will be studied, along with problems on the northern and southern flanks, and policies for outside-NATO-area security problems. Literature on the future of NATO would be included. Course Fee.

**DSS 606 Soviet and Russian Military Strategy.** 3(3-0) F,S.

Prerequisite: DSS 600 and either DSS 501 or DSS 502; or their equivalents as approved by the instructor. The first part of this seminar will review and study Soviet military policy, doctrine, strategy, and programs from the 1950s through the 1980s. It will consider problems of identifying, interpreting, and analyzing soviet strategic policies and programs – in essence, problems of U.S. intelligence and threat assessment. The second part of the seminar will extend this study to Post-USSR Russia and current directions of Russian strategic policy both for territories of the former USSR and beyond. Particular emphasis will be placed on military reform, continuity and change in military policy, and the status and role of the Russian military forces. Course Fee.

**DSS 607 Seminar on Defense Policy Analysis.** 3(3-0).

Prerequisite: DSS 501 or DSS 502 or DSS 600 and permission of instructor. Advanced research, study, and analysis of defense programs, policies, and the policy and budget processes, both within the Department of Defense and in Congress. Included also will be the comparative analysis of various studies, analyses, and critiques of U.S. defense programs and plans, and of regional and global military balances. Department of Defense administration and organization will also be studied. Course Fee.

**DSS 608 Seminar on Contemporary Security Issues in the Former USSR.** 3(3-0) D.

Prerequisite: DSS 600 and either DSS 501 or DSS 502; or their equivalents as approved by the instructor. This seminar addresses on an advanced level current developments in Russia and other states of the former Soviet Union as they bear on issues of national and international security and on U.S. security policy-making. The approach will combine analysis of internal developments related to military power and policy, and of evolving international policies, with strategic and geopolitical analysis. Course Fee.

**DSS 609 Seminar on Space and Information Warfare.** 3(3-0) D.

Prerequisite: permission of instructor. This seminar will explore the role that space and information warfare play in the national security policies and programs, and military doctrines, of the United States and other great powers. The seminar will be divided into three parts. Part one will focus on the role of space in national security, including background on U.S. and Soviet/Russian space programs, the nature of space technologies and systems, the environment of space as a theater of military operations, the impact of international law and treaties on space warfare, the development of space threats to the United States and its allies, the historical and future role of space assets in terrestrial warfare, and the nexus between civilian and military space programs. Part two will examine the burgeoning field of information warfare by seeking to define and understand what is meant by the concept, what benefits and risks it offers to American national security, in what ways the pursuit of I-War capabilities is shaping the development of American military

doctrine and force structure, and how and to what extent I-War capabilities are replacements for more traditional military capabilities such as conventional and nuclear forces. Part three will then examine the relationship between space warfare and information warfare, including how the two are conceptually supportive and how civilian and military applications of information and space technology will be increasingly blurred in the future. Course Fee.

**DSS 610 Seminar on International Terrorism and Security.** 3(3-0) D.

Prerequisite: permission of instructor. This seminar will attempt to define and examine security issues related to terrorism and low-intensity conflict today. The origins of modern terrorism will be explored and terrorism will be put in the context of a strategy to achieve political ends. Case studies of terrorism in various regions, e.g., the Middle East, Europe and the United States, will show some of the current empirical evidence of global terrorist activities. The impact terrorism has on liberal societies and their ability to defend themselves will be examined in the context of counterterrorism strategies. Course Fee.

**DSS 611 The Rise of the United States to Preeminence.** 3(3-0) D.

Prerequisite: DSS 600 and permission of instructor. This course will discuss the political development of the United States and its rise to great power, and then superpower status. Students will study a number of major U.S. wars and the political circumstances surrounding those conflicts. The course will address why the United States successfully developed into a world power and how its grand strategy changed over time. It will ask what lessons today's strategists can draw from the experiences of their predecessors. Course Fee.

**DSS 612 American National Security Policy.** 3(3-0) D.

Prerequisite: permission of instructor. This course evaluates the major actors and components of American national security policy. America's traditional national interests are studied—accenting World War II, the Cold War, and the present day. The course also addresses the circumstances of major foreign policy crises, such as the Cuban Missile Crisis, and the causes of successful and unsuccessful American interventions during the Cold War and after. Additionally, it considers America's foreign and defense policy in the post-Cold War world, and particular emphasis is placed on American policies toward other great powers such as China, Japan, and Russia, as well as in contemporary foreign and defense policy crises such as the war on terrorism. Course Fee.

**DSS 613 Intelligence, Counterintelligence, and Covert Action.** 3(3-0) D.

Prerequisite: permission of instructor. This course examines the role of intelligence and counterintelligence in the formulation and execution of state national security policies in democratic governments, and the impact of intelligence operations on international relations. The intelligence process is examined including the problems and opportunities associated with targeting or the tasking of intelligence agencies, the media of intelligence collection, the difficulties of analysis and evaluation, and counterintelligence. Additionally, covert action and paramilitary activities are studied with emphasis on the manner by which successes and failures have influenced military and foreign policy outcomes. Course Fee.

**DSS 614 Seminar on Strategic Thought.** 3(3-0) D.

Prerequisite: permission of instructor. There is a rich literature on strategy and warfare, and even the oldest surviving works on strategy are arguably relevant to contemporary political leaders. This course will examine the ideas of strategic thinkers who lived in historical periods ranging from the ancient world to the present. Students will read works by (and in some cases, about) such figures as Sun Tzu, Niccolo Machiavelli, Napoleon Bonaparte, Baron Antoine Henri de Jomini, Carl von Clausewitz, Thucydides, and Colin S. Gray. Students will discuss how these thinkers have influenced strategic studies, and how military-strategic thought has developed over time. Course Fee.

**DSS 615 Grand Strategy.** 3(3-0) D.

Prerequisite: permission of instructor. This seminar examines the role of grand strategy in international security. Emphasis is placed on the nature and role of grand strategy, and the major systemic and domestic

factors that influence grand strategy. The nature of grand strategy will be introduced historically, and the grand strategies of the major world powers prior to and during World Wars I and II, the Cold War, and post-Cold War period, will be studied. Course Fee.

**DSS 620 Internship Training in DSS Policy.** 1-3.

Prerequisite: at least three DSS 500-600 level courses, permission of department head, and acceptance by employer. Internship experience and training in defense and arms control policy making with a U.S. Government department or agency, a Washington, D.C., based defense policy research institute, or institution of comparable professional experience, including preparation of a written report or research paper based upon the internship. May be repeated for credit to a maximum of 6 credit hours toward degree. Course Fee.

**DSS 696 (615) Directed Reading & Research in Defense & Strategic Studies.** 1-3, F,S.

Prerequisite: permission of instructor. Individually tailored directed readings or research for bibliographical purposes; for improvement of research skills; for the purposes of a broader background of knowledge (e.g., in areas not covered by seminars, such as classical writings on strategy, and on the art of warfare historically or in the American experience); for more depth in selected areas of specialization; and/or to help meet the non-thesis M.S. research requirement. May be repeated for credit to a maximum of 3 credit hours toward degree. Course Fee.

**DSS 697 (690) Special Topics.** 1-3, F,S.

Prerequisite: permission of instructor and department head. Special topics may be offered as specific important issues, which are not adequately covered by regular seminars, arise; when Distinguished Guest seminars and work-shops can be planned ahead of time; or when visiting faculty wish to offer specialized courses not in the curriculum. May be repeated to a maximum of 6 hours, as topics change. Course Fee.

**DSS 698 Seminar on Contemporary Defense Issues.** 3(3-0) D.

Prerequisite: permission of instructor. This seminar will address important contemporary defense and international security issues and may be offered to develop areas of study that are insufficiently covered by regular seminars, or when distinguished guest faculty or speakers wish to offer a specialized seminar not provided by the curriculum. May be repeated to a maximum of 6 hours, as topics change. Course Fee.

**DSS 699 Thesis.** 1-6.

Prerequisite: completion of DSS course requirements for MS degree (30 hours minimum) and permission of department head. Independent research and study connected with preparation of thesis. Course Fee.

## Department of Economics

351 Strong Hall, Phone: 836-5516, FAX: 836-4236  
Email: Economics@missouristate.edu

**Acting Department Head:** Associate Professor Mahua Barari, Ph.D

**Professors:** Joe A. Bell, Ph.D.; John Hoftyzer, Ph.D.; R. Bradley Hoppes, Ph.D.; Reed N. Olsen, Ph.D.; Thomas L. Wyrick, Ph.D.

**Associate Professor:** Doris F. Sheets, Ph.D.

**Assistant Professors:** Vernon Cooper, M.S. (West Plains); Terrel A. Galloway, Ph.D.

**Lecturer:** Gerald L. Geile, M.S.

**Emeritus Professors:** Larry G. Cox, M.A.; Allan D. Stone, Ph.D.; Elizabeth E. Topping, Ph.D.; E. Dale Wasson, Ph.D.

### Credit by Examination

Credit for ECO 155 and ECO 165 is available for the Advanced Placement (AP) Examination, College Level Examination Program (CLEP) Subject Examination, and International Baccalaureate (IB) Subject Examination. See the "Academic Regulations/Credit By Exam" section of this catalog for information.

### General Education Course

Students may use ECO 155 toward the Social Sciences Perspective of the Culture and Society Area of Inquiry on the General Education requirements.

## Majors

### Economics (Non-Comprehensive)

#### Bachelor of Arts

- A. General Education (see General Education section of catalog)
- B. Major Requirements
  1. ECO 155(3), 165(3), 308(3) or equivalent, 309(3), 365(3), 385(3), 499(3)
  2. Minimum of nine additional credit hours in Economics
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Economics (Non-Comprehensive)

#### Bachelor of Science

- A. General Education (see General Education section of catalog)
- B. Major Requirements
  1. ECO 155(3), 165(3), 308(3) or equivalent, 309(3), 365(3), 385(3), 499(3)
  2. Minimum of 15 additional credit hours in Economics
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Economics (Comprehensive)

#### Bachelor of Science

- A. General Education (see General Education section of catalog)
- B. Major Requirements
  1. ECO 155(3), 165(3), 308(3) or equivalent, 309(3), 365(3), 385(3), 499(3)
  2. Minimum of 15 additional credit hours in Economics
  3. Minimum of 18 hours in satisfaction of Plan A or B
    - a. Concentration of at least 18 hours in any discipline in which a major is offered
    - b. Concentration of at least nine hours in each of two disciplines in which a major is offered
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Recommended Electives

All majors wishing to pursue careers in either Business or Public Administration/Government, or wishing to pursue Graduate Study in Economics are encouraged (but not required) to choose electives from the following relevant set of courses:

**Business Orientation Track.** Courses are: ECO 305(3), 310(3), 325(3), 450(3), 475(3), 565(3); ACC 201(3); CIS 201(2) or 290(3); FGB 135(3), 380(3); MGT 286(3), 320(3) or 340(3); MKT 150(3) or 350(3); RIL 231(3)

**Public Administration/Government Orientation Track.** Courses are: ECO 310(3), 325(3), 450(3), 504(3), 515(3), 540(3); PLS 255(3), 354(3), 573(3), 576(3); PLN 271(3)

**Graduate School Orientation Track.** Courses are: ECO 305(3), 310(3), 325(3), 515(3), 565(3); MTH 261(5), 280(5), 302(3), 315(3)

## Minors

### Economics

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Science in Education (Non-Certifiable)

- A. Minor must include ECO 155(3), 165(3)
- B. Additional hours in economics to total at least 18 hours. One of the following statistics courses may be used toward this minor: AGR 330(3), ECO 308(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 331(3), or SOC 302(3)

## Economics Courses

**ECO 155 Principles of Macroeconomics.** 3(3-0) F,S.

This course prepares the student to understand the economic structure of the United States and its place in the world economy, to interpret common economic measures, to understand the processes of governmental fiscal and monetary policies, and to evaluate individual decision-making from an economic perspective.

**ECO 165 Principles of Microeconomics.** 3(3-0) F, S.

Basic principles of economics with a particular emphasis on the nature and application of those bearing on decision making within a household, firm or industry; including consideration of problems respecting the composition and pricing of the national output, distribution of income, pricing and output of factors of production and foreign trade.

**ECO 197 (170) Topics in Economics.** 1-3 D.

A variable content course designed to explore one or more current issues in the field of economics. Students should consult the class schedule to determine the topic(s) to be covered in any given semester. The course can be repeated to a maximum of 6 credit hours, as course topics change.

**ECO 200 Consumer Economics.** 3(3-0) D.

Economic problems of concern to the individual and the household and practice in the use of consumer aids.

**ECO 300 Service Learning In Economics.** 1, D.

Prerequisite: 30 hours, concurrent registration in an Economics course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Economics to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**ECO 302 Economic Analysis for Investors.** 3(3-0) F,S.

Prerequisite: 3 hours of ECO or permission. This course examines economic principles used by investors and financial reporters. Concepts are drawn from several fields of economics including microeconomics, macroeconomics, money and banking, labor economics, and international economics. Students will participate in a stock market game, make in-class presentations and conduct internet research.

**ECO 305 Money and Banking.** 3(3-0) F, S.

Prerequisite: ECO 155. Nature and functions of money, a survey of the operation and development of the banking system in the U.S.; introduction to monetary theory and policy.

**ECO 308 Basic Statistics for Economists.** 3(3-0) D.

Prerequisite: ECO 155 and ECO 165; completion of mathematics general education requirement. Descriptive statistics, probability theory, sampling distributions, estimation theory, tests of hypotheses. Emphasis is placed on problems encountered in economic research. This course cannot be credited toward a degree if the student has taken any of the following: AGR 330, MTH 340, PSY 200, QBA 237, REC 331, SOC 302.

**ECO 309 Intermediate Statistics for Economists.** 3(3-0) F.

Prerequisite: ECO 308 or its equivalent. Simple regression and correlation. Multiple regression analysis. Model building, time series analysis and related topics.

**ECO 310 Labor Economics.** 3(3-0) D.

Prerequisite: ECO 155 and ECO 165. Factors determining the market for labor; examination of the economic effects of trade unions; recent trends in the labor force and the labor share of national income.

**ECO 315 The Economics of Gender.** 3(3-0) D. (Identical with GST 315)

Prerequisite: ECO 165 or permission. This course teaches students to analyze the economic decisions made by both males and females in two main areas: the labor market and the household. Specific areas of inquiry include the following: the family as an economic unit, gender differences in labor force participation, occupational gender segregation, explanations for gender earnings differentials and efforts to reduce such differentials, gender earnings discrimination, and international gender issues. A student may not receive credit for both ECO 315 and GST 315.

**ECO 320 American Economic History.** 3(3-0) D.

Prerequisite: ECO 155 or ECO 165; HST 121 or HST 122. An examination of economic conditions and policies in America's past. Selected events are analyzed using principles drawn from economic theory, including: U.S. economic development, the origins of antitrust policy, and the New Deal.

**ECO 325 Government and Business.** 3(3-0) S.

Prerequisite: ECO 165. Theory and public policy concerning the structure, conduct and performance of U.S. industries. Primary emphasis is on oligopolies and monopolies.

**ECO 346 Economic Development.** 3(3-0) F.

Prerequisite: ECO 155 and ECO 165. Theory of economic growth and development, with emphasis on developing economies and the techniques for understanding and promoting development.

**ECO 365 Intermediate Microeconomic Theory.** 3(3-0) F.

Prerequisite: ECO 165. Maximizing behavior of households and firms; theory of price and output determination under various market structures; distribution theory; introduction to general equilibrium analysis.

**ECO 385 Intermediate Macroeconomic Theory.** 3(3-0) F, S.

Prerequisite: ECO 155. Measurement, analysis and control of factors determining the aggregate level of economic activity.

**ECO 396 (400) Directed Readings in Economics.** 1-3, D.

Prerequisite: ECO 308 and ECO 365 and ECO 385; and 75 hours; or permission. Readings and written reports in the area of particular interest to the student with the consent and guidance of the instructor.

**ECO 397 (300) Studies in Economics.** 3(3-0) D.

A variable content course of 3 hours. Specific subject matter will change from semester to semester, depending on the interests of professors and students. May be repeated as topics change to a maximum of 6 credit hours.

**ECO 399 Cooperative Education in Economics.** 1-3, D.

Prerequisite: acceptance into the Cooperative Education Program, 12 hours of economics and permission of the department head. To enable qualified students to apply theoretical constructs and analytical techniques in a supervised work environment. This course cannot be credited toward a major in economics if the student has completed a total of three or more credits in either ECO 396, or cooperative education in another discipline.

**ECO 435 The Economic Analysis of Law.** 3-(3-0) D.

Prerequisite: ECO 165. Microeconomic theory is used to analyze the law and legal procedures. Although one purpose of the law is to resolve disputes between individuals, this course will focus on analyzing the incentives that the law gives rational individuals. Economic models are applied to four basic areas of law: property, contract, tort (accident), and criminal law. In addition, economic models are applied to the formation of the law and to legal institutions.

**ECO 450 Location of Economic Activity.** 3(3-0) F.

Prerequisite: ECO 155 and ECO 165. Study of economic forces determining the location of businesses and consumers, and the size, shape, and changes in market areas/cities/land use. Also application of techniques of economic impact analysis of location decisions.

**ECO 473 Mathematical Economics.** 3(3-0) D.

Prerequisite: ECO 155 and ECO 165; and MTH 285 or equivalent. Development and application of mathematical techniques to economics.

**ECO 475 Managerial Economics.** 3(3-0) F.

Prerequisite: ECO 155 and ECO 165. Application of economic analysis to decision making in business management.

**ECO 499 Senior Research Seminar.** 3(3-0) S.

Prerequisite: ECO 309 and ECO 365 and ECO 385; and 90 credit hours; or permission of the department head. A seminar course requiring the completion of assignments which develop and refine economic research skills. One or more papers and class presentations will be used to assess student achievement. Primarily for economics majors in their final year of study. Graduating seniors are given enrollment priority.

**ECO 500 (600) Fundamentals of Micro- and Macroeconomics.** 3(3-0) D.

Prerequisite: COBA majors and minors must receive permission from a director of a COBA graduate program. An accelerated course dealing with the fundamentals of micro- and macroeconomic theory, designed for graduate students who have not completed undergraduate principles of economics. This course will not be counted in the hours required for a COBA undergraduate or graduate degree. This course will not be counted in the hours required for an Economics undergraduate major or minor.

**ECO 504 (404) Health Care Economics.** 3(3-0) F. (Identical with HCM 504).

Prerequisite: ECO 165. A basic study of the economics of the health care market. Microeconomic theory is applied to the analysis of health care issues. Attention will be given to empirical studies of health care economics. A student may not receive credit for both ECO 504 and HCM 504.

**ECO 508 Intermediate Econometrics.** 3(3-0) D.

Prerequisite: ECO 309 or permission. Examination of the principles of economic model construction and the econometric techniques used in estimation of behavioral relationships.

**ECO 515 Public Finance.** 3(3-0) D.

Prerequisite: ECO 155 and ECO 165. Allocation and distribution functions of the public sector of the economy; theories of taxation and public expenditure; shifting and incidences of taxes, local-state federal finance.

**ECO 520 History of Economic Thought.** 3(3-0) D.

Prerequisite: ECO 155 and ECO 165. Development of economic theory.

**ECO 540 Economics of the Environment.** 3(3-0) F.

Prerequisite: ECO 165 or permission. The course applies economic concepts and analysis to environmental issues such as pollution and natural resource management. Economic concepts and analysis used in the course will include supply and demand, cost benefit analysis, and the role of incentives.

**ECO 565 International Economics.** 3(3-0) S.

Prerequisite: ECO 155 and ECO 165. Theory, institutions and problems respecting international economic relations.

**ECO 585 Advanced Economic Analysis.** 3(3-0) D.

Prerequisite: ECO 365 and ECO 385; 60 hours or permission. Advanced study of the theories of production, distribution and exchange; emphasizing the theory of games, linear programming and input-output analysis.

**ECO 586 Business Cycles and Forecasting.** 3(3-0) D.

Prerequisite: ECO 385 or permission. Fluctuations in the level of economic activity; an examination of the basic principles and techniques of economic forecasting.

**ECO 599 Directed Research in Economics.** 1-3, D.

Prerequisite: ECO 365 and ECO 385 (or ECO 610), and ECO 309, or permission. The student is expected to conduct research in a selected topic in economics and to produce a written report.

***The following courses are open only to graduate students.*****ECO 605 Economic Studies.** 3(3-0) D.

Survey course; problems of government finance, fiscal policy, and resource structures; economic pressure groups.

**ECO 608 Topics in Economic Education.** 1-3, D.

Instruction for teachers in a limited number of economic concepts. Subject matter will change depending upon grade levels and goals involved. Attention will be given to ways concepts can be incorporated into the curricula. May be repeated as topics change, to a maximum of 6 credit hours. Variable Content Course.

**ECO 610 Micro- and Macroeconomic Analysis.** 3(3-0) F,S.

Prerequisite: ECO 500 or both ECO 155 and ECO 165. An intermediate to advanced study of selected topics in microeconomic and macroeconomic analysis.

**ECO 630 Money and Credit Markets.** 3(3-0) D.

Prerequisite: ECO 305 or permission. Role performed by the Federal Reserve System, financial intermediaries, non-financial businesses, the public, and the foreign sector in developing and maintaining money and credit flows.

**ECO 690 Seminar in Economics.** 3(3-0) D.

Prerequisite: 18 graduate hours in business administration and economics, and permission of department head. Research techniques in economics and economic analysis.



## Department of History

410 Strong Hall, Phone: 836-5511, FAX: 836-5523

Email: [History@missouristate.edu](mailto:History@missouristate.edu), Department Web Site: <http://history.missouristate.edu/>

**Department Head:** Professor Michael M. Sheng, Ph.D.

**Distinguished Professors:** Dominic J. Capeci, Jr. Ph.D.; James N. Giglio, Ph.D.

**Professors:** Wayne C. Bartee, Ph.D.; Marc Cooper, Ph.D.; David W. Gutzke, Ph.D.; P. George Hummasti, Ph.D.; John H. Keiser, Ph.D.; Andrew W. Lewis, Ph.D.; F. Thornton Miller, Ph.D.; Worth R. Miller, Ph.D.; William G. Piston, Ph.D.

**Associate Professors:** Holly A. Baggett, Ph.D.; Larry W. Burt, Ph.D.; Thomas S. Dicke, Ph.D.; Ahmed Ibrahim, Ph.D.; Stephen L. McIntyre, Ph.D.

**Assistant Professors:** Jamaine M. Abidogun, Ph.D.; John F. Chuchiak IV, Ph.D.; Carol Silvey, M.Ed. (West Plains)

**Visiting Assistant Professor:** Dale R. Streecher, Ph.D.

**Lecturers:** Beth McIntyre, M.A.; Craig A. Smith, Ph.D.

**Emeritus Professors:** David B. Adams, Ph.D.; Meredith Adams, Ph.D.; Robert Flanders, Ph.D.; William E. Hammond, Ph.D.; B.B. Lightfoot, Ph.D.; Duane G. Meyer, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – History, B.S.Ed., Secondary Education/History and Secondary Education/Social Studies, M.S.Ed.; National Council for Social Studies (NCSS).

### Credit By Examination

Credit for HST 101, 102, 121, and 122 is available for the Advanced Placement (AP) Examination and the College Level Examination Program (CLEP) Subject Examination. Credit for HST 101 and 121 is available for International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### General Education Courses

HST 121 or 122 must be taken with PLS 101 to satisfy the American Studies requirement of the Public Affairs Component of General Education. HST 103 or 104 may be used toward the Humanities Perspective of the Culture and Society Area of Inquiry and HST 210 may be used toward the Writing II Basic Required Course of the General Education requirements.

## Majors

### History (Non-Comprehensive)

#### Bachelor of Arts

A. General Education (see General Education section of catalog)

B. Major Requirements 36 hours

1. HST 103(3), 104(3), 121(3), 122(3), 390(3)
2. Select six hours of Third World and non-Western History: HST 323(3), 335(3), 350(3), 370(3), 371(3), 380(3), 381(3), 541(3), 543(3), 571(3), 587(3), 588(3), and variable topics courses when they cover Third World topics
3. Select six hours of U.S. History: HST 315(3), 319(3), 320(3), 328(3), 329(3), 330(3), 331(3), 332(3), 337(3), 340(3), 375(3), 509(3), 510(3), 515(3), 517(3), 518(3), 519(3), 521(3), 523(3), 524(3), 525(3), 527(3), 528(3), 531(3), 536(3), 537(3), 538(3), and variable topics courses when they cover U.S. History
4. Select six hours of Ancient, Asian, European, Latin American, or Middle East history: HST 321(3), 340(3), 341(3), 343(3), 353(3), 355(3), 360(3), 361(3), 370(3), 371(3), 380(3), 381(3), 541(3), 542(3), 543(3), 545(3), 548(3), 549(3), 551(3), 553(3), 556(3), 559(3), 561(3), 565(3), 566(3), 571(3), 587(3), 588(3), and variable topics courses in the relevant field
5. One undergraduate seminar: HST 491(3) or 492(3)

C. Minor Required

D. Specific Requirements for Bachelor of Arts Degree (see “Academic Programs and Requirements” section of catalog)

E. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

## History

### Bachelor of Science in Education (Certifiable grades 9-12)

A. General Education (see General Education section of catalog)

B. Major Requirements

1. HST 103(3), 104(3), 121(3), 122(3), 390(3)
  2. Select six hours of survey courses in African, Asian, Latin American and Middle East civilization: HST 323(3), 335(3), 350(3), 370(3), 371(3), 380(3), 381(3)
  3. Select six hours of U.S. History: HST 315(3), 319(3), 320(3), 328(3), 329(3), 330(3), 331(3), 332(3), 337(3), 340(3), 375(3), 509(3), 510(3), 515(3), 517(3), 518(3), 519(3), 521(3), 523(3), 524(3), 525(3), 527(3), 528(3), 531(3), 536(3), 537(3), 538(3), and variable topics courses when they cover U.S. History
  4. Select six hours of Ancient and European history: HST 321(3), 340(3), 341(3), 343(3), 353(3), 355(3), 360(3), 361(3), 541(3), 542(3), 545(3), 548(3), 549(3), 551(3), 553(3), 556(3), 559(3), 561(3), 565(3), 566(3), and variable topics courses in the relevant field
  5. In addition, a major in history to be certifiable must complete PLS 101(3), 102(3); GRY 100(3); SOC 150(3); PSY 121(3); and ECO 155(3)
  6. Five additional hours selected from ANT, ECO, GRY, PLS, PSY, and SOC (may not use PSY 380, 385, or 390)
- C. Professional Education Courses: HST 418(4), HST 420(6), HST 421(6) and also see the “Academic Programs and Requirements/Secondary Education” section of the catalog
- D. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a “C” in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## Minors

### History

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Social Work

- A. HST 103(3) or 104(3); HST 121(3) or 122(3)
- B. Select one of the following courses: HST 323(3), 335(3), 350(3), 370(3), 371(3), 380(3), 381(3), 541(3), 542(3), 543(3), 571(3), 587(3)
- C. Select 9 additional hours in history for a total of 18.

### History

#### Bachelor of Science in Education

#### (Non-Certifiable)

- A. HST 103(3), 104(3), 121(3), 122(3)
- B. Select one survey course in African, Asian, Latin American or Middle East civilization: HST 335(3), 350(3), 370(3), 371(3), 380(3), 381(3)
- C. Select one course in U.S. History: HST 315(3), 319(3), 320(3), 328(3), 329(3), 330(3), 331(3), 332(3), 337(3), 340(3), 375(3), 509(3), 510(3), 515(3), 517(3), 518(3), 519(3), 521(3), 523(3), 524(3), 525(3), 527(3), 528(3), 531(3), 536(3), 537(3), 538(3), and variable topics courses when they cover U.S. History
- D. Select one course in European History: HST 321(3), 340(3), 341(3), 343(3), 353(3), 355(3), 360(3), 361(3), 541(3), 542(3), 543(3), 545(3), 548(3), 549(3), 551(3), 553(3), 556(3), 559(3), 561(3), 565(3), 566(3), and variable topics courses in the relevant field
- E. Select 3 hours of upper division electives in history
- F. In addition, the student must also complete PLS 101(3), ECO 155(3); GRY 100(3); and SOC 150(3)

## Graduate Program

The Master of Arts degree offers a major in History. The Master of Science in Education (secondary education major) offers an area of emphasis in History and Social Sciences. See the Graduate Catalog for details.

## History Courses

### HST 101 Western Civilization I. 3(3-0) F,S.

An overview of the development of the civilizations of the West from their origins in the Near East and Mediterranean to the 16th Century. Cannot receive credit for both HST 101 and HST 103.

### HST 102 Western Civilization II. 3(3-0) F,S.

The extension and development of Western Civilization from the impact of the Renaissance, Reformation, voyages of discovery, and scientific revolution to the nuclear and computer age. Cannot receive credit for both HST 102 and HST 104.

### HST 103 World History to Circa 1600 C.E. 3(3-0) F,S.

This course examines the formation and development of the world's major societies and systematically explores cross-cultural interactions and exchanges that have been some of the most effective agents of change in all of world history from Pre-History to circa 1600 C.E. Students cannot receive credit for both HST 101 and HST 103.

### HST 104 World History Since 1600 C.E. 3(3-0) F,S.

This course examines the formation and development of the world's major societies and systematically explores cross-cultural interactions and exchanges that have been some of the most effective agents of change in all of world history since 1600 C.E. Students cannot receive credit for both HST 102 and HST 104.

### HST 121 Survey of the History of the United States to 1877. 3(3-0) F,S.

Formation of the United States and its civilization from the Age of Discovery through the Reconstruction Era, with emphasis on the influence of the Frontier and the Native American, European and African heritages; the constitutional development of the federal government; the evolution of the nation's economic system, social fabric and diplomatic experiences.

### HST 122 Survey of the History of the United States Since 1877. 3(3-0) F,S.

Modernization of the United States and its role in world affairs from the late 19th Century to the present, with emphasis on industrialization and urbanization and their impact on socioeconomic and international developments.

### HST 200 The Twentieth Century World: An International History. 3(3-0) F,S.

From the height of Western Imperialism in 1900 to the post Cold War years, this course surveys twentieth-century world history, examining the transformation of international, political, economic, and cultural relations.

### HST 210 Writing II: Historical Inquiry. 3(3-0) F,S.

Prerequisite: ENG 110 or placement and 30 hours. Introduction to historical research and writing. Meets Writing II requirement for a major in history. This course emphasizes the techniques of conducting a thorough literature search, the analysis of primary and secondary materials, and instruction and practice in historical writing. May not be applied toward history major.

### HST 300 Service Learning in History. 1, F,S.

Prerequisite: 30 hours, concurrent registration in a History course designated as a service learning offering and permission of department head. This service component for an existing course incorporates community service with classroom instruction in History to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

### HST 315 Military History of the United States. 3(3-0) F,S.

Recommended: HST 121 or 122. American Military History from the colonial period to the present; its relation to the national development in war and peace.

### HST 319 Women in American History to 1870. 3(3-0) D.

Recommended: HST 121. Examines the history of American women from precolonial to 1870. Topics include women's historical roles in relation to the family, work, sexuality, politics, and culture.

### HST 320 Women in American History Since 1870. 3(3-0) D.

Recommended: HST 122. Examines the history of American women from the late 19th century to the present. Topics include women's historical roles in relation to the family, work, sexuality, politics, and culture.

### HST 321 Women In Western Civilization. 3(3-0) D.

Recommended: HST 101 or 102. A survey of ideas about women from Aristotle and the Bible to the women's movement, and also of the conditions and events which have most influenced women and the family.

**HST 323 Women in Africa.** 3(3-0) D.

Recommended: HST 101 or 102 or 121 or 122 or AAS 100. This course will introduce students to women's participation in Africa's history and contemporary issues. The readings cover a broad geographical range of North, West, Central and Southern Africa. The course will include five topics: Women and the Family; Women, Politics, and Economics; Religious Women; Women in Colonial Rebellion; and Women and National Revolutions.

**HST 328 The American Approach to Foreign Policy.** 3(3-0) D.

Recommended: HST 121 or 122. Characteristics and uniqueness of U.S. foreign policy; evolution of the United States as a Great Power; critical periods from the Revolution to the present.

**HST 329 The Automobile in American Life.** 3(3-0) D.

Recommended: HST 122. Examines the impact of the automobile on American society during the twentieth century. Topics include the manufacture, marketing and maintenance of automobiles, the transformation of rural and urban life, the decline of transit and the impact of the automobile on social life.

**HST 330 Business and Society, Colonial Times to Present.** 3(3-0) D.

Recommended: HST 121 or 122. The main focus of this course is the development of the firm and its relationship to the economic, social, and legal environment within which businesses have operated. Special emphasis is placed on how the firm shaped and was shaped by American society.

**HST 331 African American History I.** 3(3-0) D.

Recommended: HST 121 or AAS 100. Survey of the experiences of Americans of African descent to 1865. Emphasis on African heritage; African-American contributions and institutions; slavery and quasi-freedom.

**HST 332 African American History II.** 3(3-0) D.

Recommended: HST 122 or AAS 100. Continuation of HST 331, 1865-present. Emphasis on the struggles for racial justice; protest organizations, philosophies and tactics.

**HST 335 African Civilization.** 3(3-0) D.

Recommended: HST 101 or 102 or 121 or 122. Historical developments in Africa from antiquity to the present. Emphasis on south Saharan Africa for the period before European contact. Topics in modern nationalism and independence. Africa in the context of world history.

**HST 337 Recent American History, 1929 to Present.** 3(3-0) S.

Recommended: HST 121 or 122. Great Depression, Age of Franklin D. Roosevelt; World War II; the Cold War; the Eisenhower years; Kennedy; Johnson; Nixon; Carter; postwar domestic development and its concomitant domestic problems. May be taught concurrently with HST 527. Cannot receive credit for both HST 337 and 527.

**HST 340 Business and Society, U.S., Britain, and Japan.** 3(3-0) D.

Recommended: HST 122. This class examines the process of industrialization and the development of the firm across three cultures. It looks at business and its relationship with society as each country moved from a traditional culture to a modern industrial society.

**HST 341 Ancient Greece.** 3(3-0) D.

Recommended: HST 101. Ancient Greece from the Minoans and the Mycenaeans to the Roman conquest. Broad social, economic, scientific, technological, and cultural developments. The problem of the decline of Classical Greek Civilization.

**HST 343 Ancient Rome.** 3(3-0) D.

Recommended: HST 101. Roman civilization to the downfall of the Empire. Broad social, economic, technological and cultural developments. The problems of the decline of ancient civilization.

**HST 350 Latin American Civilization.** 3(3-0) D.

Recommended: HST 101 and 102. Foundations of Ibero-American civilization including the Amer-indian, Iberian and African background; Emphasis on the origins of institutions and problems which affect the region as a whole.

**HST 353 History of Europe in the 19th Century, 1815-1918.** 3(3-0) D.

Recommended: HST 101. Forces unleashed by the French Revolution and other movements, including liberalism, reaction, nationalism, industrialization and imperialism. May be taught concurrently with HST 553. Cannot receive credit for both HST 353 and 553.

**HST 355 Contemporary Europe: 1918 to the Present.** 3(3-0) D. Recommended: HST 102. Europe between the wars, the coming of World War II, European problems since 1945.

**HST 360 Britain, 55 B.C.-1688.** 3(3-0) D.

Recommended: HST 101. Impact of European invasions on social structure, social cohesion and demography; feudalism and its decline; emergence of early modern England in Tudor and Stuart periods; Civil War and the Glorious Revolution.

**HST 361 Britain, 1688-Present.** 3(3-0) D.

Recommended: HST 101 or 102. Transition from pre-industrial to industrial society; tenacity of aristocratic power and influence; growth of the welfare state; economic and international decline.

**HST 370 History of the Middle East from 600-1914.** 3(3-0) D.

A survey of political, social, and economic trends in the Middle East since the rise of Islam to 1914. Topics include the rise and spread of Islam, the age of the imperial caliphate, and the rise and fall of Islamic regional empires.

**HST 371 History of the Middle East Since 1914.** 3(3-0) D.

A survey of political, social, and economic trends in the Middle East since 1914. Topics include the Middle East and Western military, economic, and ideological encroachment after World War I, regional conflicts, revolutions, politics and religion, and the emergence of the modern nation-states of the Middle East.

**HST 372 From Hollywood to the Middle East: In Search of Arab Identity.** 1(1-0) D.

Explores the mosaic nature of Arab culture; to assess the fact that Arabs derive their identity from shared social patterns and culture, rather than artificially imposed polity or religion; and shows that Arab identity is shaped by where Arabs stand in time and space, by their history, by their memory, and by the places in which they have lived and died.

**HST 375 The Ozarks in American History.** 3(3-0) D.

Recommended: HST 121 or 122. The Ozarks as an historic American region. Historical geography of the Ozarks. The Old Ozarks Frontier; the Modern Ozarks; the Cosmopolitan Ozarks; the New Ozarks Frontier. Relation of the Ozarks to major themes in U.S. History.

**HST 380 East Asian Civilization I.** 3(3-0) F.

A comparative historical treatment of China and Japan from earliest times to 1600.

**HST 381 East Asian Civilization II.** 3(3-0) S.

A comparative historical treatment of China and Japan from 1600 to the present.

**HST 390 Introduction to Historiography.** 3(3-0) S.

Prerequisite: Writing II or permission of department head. The study of the philosophy, methods, and practice of history as a field of scholarly inquiry. Students are also required to take the Major Field Achievement Test.

**HST 397 Special Topics in History.** 1-3 D.

Recommended: 3 hours of history. A variable content, variable credit course. Specific subject matter will change from term to term, depending upon the interests of professor and student. May be repeated, as topics change, to a maximum of 6 credit hours. Variable Content Course.

**HST 418 Teaching of Secondary School Social Studies.** 4(3-2) F,S.

Prerequisite: 12 hours history and SEC 302, EDU 350, SPE 340 and admission to Teacher Education Program. Resources for teaching the social sciences; methods of evaluation; unit and daily lesson planning appropriate for multicultural settings; reflective decision-making in the application of teaching methods and techniques. Completion of a 30 hour practicum assigned at Greenwood or Springfield area secondary

school is required. Checkpoint 2 completion is required during this course. A grade of "C" or better is required to take HST 420 or HST 421. May not be taken Pass/Not Pass.

**HST 420 Supervised Teaching of Secondary Social Studies (Secondary).** 6 F,S.

Prerequisite: completion of all method courses in secondary social studies content area; a grade of "C" or better in all professional education courses; Praxis II exam passed; approval for student teaching. Student observes, then teaches under the direction of the cooperating teachers and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Student will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**HST 421 Supervised Teaching of Secondary Social Studies (Secondary).** 6 F,S.

Prerequisite: HST 420. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Student will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of their course grade.

**HST 491 Senior Seminar in U.S. History.** 3(3-0) D.

Prerequisite: HST 390, Writing II, and 90 hours or permission of department head. Concentrated study of a sharply focused topic and the preparation of a bachelor's paper based on primary research. Course content varies each semester. Either HST 491 or HST 492 is required for the BA in History. This course is strongly recommended for anyone considering graduate school. Graduating seniors are given enrollment priority.

**HST 492 Senior Seminar in Non U.S. History.** 3(3-0) D.

Prerequisite: HST 390, Writing II, and 90 hours or permission of department head. Concentrated study of a sharply focused topic and the preparation of a bachelor's paper based on primary research. Course content varies each semester. Either HST 491 or HST 492 is required for the BA in History. This course is strongly recommended for anyone considering graduate school. Graduating seniors are given enrollment priority.

**HST 496 Independent Readings in History.** 1-3, D.

Prerequisite: permission of instructor and department head; completion of upper level course (or acceptable equivalent) dealing with the subject or period of the proposed reading. Students should consult with a professor of the department who specializes in the subject; with professor's consent present a written proposal to the department head for his approval before final registration for the term in which the reading is to be done. Only one approved Reading Program may be taken in any semester. A maximum of 6 semester hours may be taken in HST 496. Areas offered for independent readings: United States, Latin American, Ancient, Medieval, European, Asian and African history.

**HST 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199, admission to the Teacher Education Program; a grade of "C" or better in all professional education courses; passing the appropriate Praxis II exam; and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students who receive credit for this course will not receive credit for AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SPE 499, THE 493.

**HST 509 Indian History.** 3(3-0) F.

Prerequisite: 50 hours or permission of department head. History of Indian/White relations, federal Indian policy, and Indian accommodation to European introductions and eventual American dominance from the beginning of contact with Europeans to the present.

**HST 510 The Plains Indians.** 3(3-0) S.

Prerequisite: 50 hours or permission of department head. History and culture of Plains Indians from the pre-Columbian period to the end of the frontier era near the turn of the last century, including the impact of the European invasion.

**HST 515 American Environmental History.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Survey of humankind's relationship with nature and the environment in what is now the United States from pre-Columbian times to the present. Will especially focus on the impact of American development on the environment, the impact of the environment on the development of the United States, and the significance of the many different ideas and images concerning nature and the environment throughout American history.

**HST 517 Legal and Constitutional History of the United States.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. The origins of American constitutionalism, The Philadelphia Convention, the historical context of the changes in the law, in the Constitution, and in the courts since 1789, and the development of the law profession and legal education.

**HST 518 Colonial America.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Character, development and modification of the English Empire in North America.

**HST 519 The American Revolution.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Origins of the Revolution, War of Independence, and the society, government, and economy of the Revolutionary and Confederation eras.

**HST 521 Early American Republic.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Study of America, 1780s-1840s. Topics will include the development of constitutional government and federalism, mix of republican ideology and capitalism, causes and results of the War of 1812, first and second political party systems, social reform, and economic development.

**HST 523 Nineteenth Century America.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Emphasis upon how the ideas and values that constituted the original meaning of America (namely, the republicanism of the American Revolution) were transformed in response to the Commercial and Industrial Revolutions of nineteenth century America, producing two major crises of the century: the Civil War and Populist Revolt. Included is the transition of the United States from an agrarian society of economically and politically independent farmers to a depersonalized industrial nation of largely dependent salaried employees and wage earners.

**HST 524 Civil War and Reconstruction.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. The sectional conflict, the Civil War, and Reconstruction examined from political, military, social, and economic perspectives, with emphasis on differing historical interpretations of the causes of the war, the South's defeat, and the limits of Reconstruction.

**HST 525 Gilded Age/Progressive Era America, 1865-1920.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Political, economic, social and intellectual development of the United States from the end of the Civil War through World War I and its aftermath.

**HST 527 Recent American History, 1929-Present.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Great Depression; Age of Franklin D. Roosevelt; World War II; the Eisenhower years; Kennedy; Johnson; Nixon; Carter; America reluctantly assumes the mantle of global leadership. Domestic development and its concomitant domestic problems. May be taught concurrently with HST 337. Cannot receive credit for both HST 337 and 527.

**HST 528 U.S. History Since 1945.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. The Cold War, politics from Truman through the Reagan presidency; the social conflict of the 1960s; the civil rights movement; the Great Society; Vietnam; and the Reagan revolution.

**HST 531 African American Leaders and Movements.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Study of African American leaders and movements in the United States, with emphasis on the period since World War II.

**HST 536 History of Missouri.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Economic, social, political and constitutional history of the state; role played by Missouri in national affairs.

**HST 537 History of the American West.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Westward movement in America as history and myth; influence of the West on American society and character.

**HST 538 History of the American South, 1607-Present.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Development of the South's social, economic and intellectual distinctiveness, with an emphasis on slavery, the plantation system, sectional conflict, modernization, Populism, disfranchisement, segregation, Dixie Demagogues and the Civil Rights Movement.

**HST 541 The Ancient Near East to 1200 BCE.** 3(3-0) F.

Prerequisite: 50 hours or permission of department head. Sumerians, Babylonians, Egyptians and Hittites; special reference to Hebrew scripture. Interrelationships among ancient civilizations; readings from original sources in English translation.

**HST 542 Ancient Israel.** 3(3-0) S.

Prerequisite: 50 hours or permission of department head. History of Israel to the end of the Persian period with special reference to the Canaanites, Mycenaeans, Philistines, Phoenicians, Assyrians, Chaldeans, and Persians.

**HST 543 History of the Arab-Israeli Conflict.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. The Arab-Israeli conflict in its historical and contemporary terms. The course covers three periods: The first period examines the roots of Arab and Jewish historical/biblical claims to Palestine before 1939. The second period from 1939 to 1982 analyzes the causes and effects of the Arab-Israeli wars. The third period from 1982 to 1991 covers the Israeli invasion of Lebanon, the Palestinian uprising (Intifada), and the peace process.

**HST 545 Medieval Europe.** 3(3-0) F.

Prerequisite: 50 hours or permission of department head. History of Medieval France, Germany, and the Papacy from the 5th Century to the 16th Century.

**HST 548 The Renaissance.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Europe from about 1320 to about 1550, in the transition period from Medieval civilization to Modern Civilization; history of ideas and culture.

**HST 549 The Reformation.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Early modern period of European history, 1500-1648. Religious controversy, religious wars, growth of the secular state.

**HST 551 The French Revolution and the Napoleonic Era.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Causes and phases of the Revolution in France; the expansion of the Revolution; rise and downfall of Napoleon.

**HST 553 History of Europe in the 19th Century, 1815-1918.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Forces unleashed by the French Revolution and other movements, including liberalism, reaction, nationalism, industrialization, and imperialism. May be taught concurrently with HST 353. Cannot receive credit for both HST 353 and HST 553.

**HST 556 France Since 1815.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. A survey of French political, economic, social and intellectual developments. Spe-

cial emphasis on the search for a stable political and economic system through the Fifth Republic and into the new multinational Europe.

**HST 559 Germany, 1815-Present.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. The unification process, the German Empire, Weimar Republic, Third Reich, Germany as a European Great Power.

**HST 561 Russia Since 1801.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Emphasis on the modernization of Russia, the rise of dissent, Russia's interaction with Europe, change and continuity between Imperial and Soviet Russia.

**HST 565 English Constitution, Courts and Common Law.** 3(3-0) F.

Prerequisite: 50 hours or permission of department head. The development of the English constitution from the late Middle Ages to 1688 with special emphasis on the development of the Common Law and the courts.

**HST 566 Victorian and Edwardian England.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. This course will examine the impact of industrialization; wealth, poverty and the rise of class; reform movements; origins of the welfare state; emergence of the Labour party, and the slow eclipse of aristocratic power and influence.

**HST 571 China in the Twentieth Century.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. An intensive study of the transformation of China from a Confucian, Feudal state to a Communist world power.

**HST 587 Mexico from Colony to Nation.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Mexican history from the colonial period to the Revolution of 1910.

**HST 588 Twentieth-Century Mexico.** 3(3-0) D.

Prerequisite: 50 hours or permission of department head. Mexico from the Revolution of 1910 to the present, emphasizing Mexico's influence upon the Cuban Nicaraguan and other revolutions; its role as a member of the Middle American Community and of Latin America at large.

**HST 597 Topics in History.** 1-3, D.

Prerequisite: 50 hours or permission of department head. The topics studied will change from term to term depending on the interests of professors and students. May be repeated as topics change. Variable Content Course.

**HST 599 Internship in Public History.** 1-3, D.

Prerequisite: 60 hours and permission of the department head and host institution. Supervised and approved work in a public or private agency which manages a museum, archive, or historic sites. May be repeated for credit but only 3 hours may be counted towards the B.A., B.S.Ed., or M.A. major in History. 1 credit hour for each 40 hours of service.

**The following courses are open only to graduate students.****HST 601 Historiography and Historical Method.** 3(3-0) F.

Various philosophies of history and theories concerning method, purpose and meaning of history; problems of research.

**HST 602 Secondary School Curriculum for the Social Studies.** 3(3-0) D.

Foundation course in the development and organization of the secondary school curriculum with an emphasis toward issues within social studies curriculum. This course meets the MSED degree requirements for social studies or history majors only.

**HST 610 Seminar in Ancient History.** 3(3-0) D.

Prerequisite: HST 601 or permission. A seminar in ancient history, providing a study in depth of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated once for credit.

**HST 620 Proseminar in American History.** 3(3-0) D.

Prerequisite: HST 601 or permission. Readings in chosen periods and topics in American History for the graduate student. May be repeated once for credit.

**HST 630 Seminar in American History.** 3(3-0) D.

Prerequisite: HST 601 or permission. Study in depth of a chosen topic as well as the historiography of the topic for graduate students.

**HST 640 Proseminar in European History.** 3(3-0) D.

Prerequisite: HST 601 or permission. Readings in chosen periods and topics in European history for the graduate student. May be repeated once for credit.

**HST 650 Seminar in European History.** 3(3-0) D.

Prerequisite: HST 601 or permission. Study in depth of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated for credit with department consent.

**HST 660 Proseminar in Latin American History.** 3(3-0) D.

Prerequisite: HST 601 or permission. Readings in chosen periods and topics in Iberian and Latin American history for the graduate student. May be repeated once for credit.

**HST 670 Proseminar in Ancient Near East History.** 3(3-0) D.

Prerequisite: HST 601 or permission. Readings in chosen periods and topics in Ancient Near East history for graduate student. May be repeated once for credit.

**HST 683 Women's History: The Use and Understanding of Sources.** 3(3-0) D.

Prerequisite: HST 601 or permission of department head. Students will study seminal primary and secondary sources relating to women's history, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

**HST 684 The American Revolution: The Use and Understanding of Sources.** 3(3-0) D.

Prerequisite: HST 601 or permission of department head. Students will study seminal primary and secondary sources relating to the American Revolution, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

**HST 685 The Civil War in Missouri: The Use and Understanding of Sources.** 3(3-0) D.

Prerequisite: HST 601 or permission of department head. Students will study seminal primary and secondary sources relating to the Civil War in Missouri, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

**HST 686 American Social History: The Use and Understanding of Sources.** 3(3-0) D.

Prerequisite: HST 601 or permission of department head. Students will study seminal primary and secondary sources relating to American social history, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

**HST 687 American Education: The Use and Understanding of Sources.** 3(3-0) D.

Prerequisite: HST 601 or permission of department head. Students will study seminal primary and secondary sources relating to American education, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

**HST 696 (604) Readings in History.** 1-3, D.

Prerequisite: recommendation of the student's Graduate Advisory Committee and permission of supervising professor and permission of department head. Arranged program of readings for the individual student directed by a professor of the graduate faculty. May be repeated once for credit.

**HST 699 Thesis.** 1-6, D.

Prerequisite: permission of Director of History graduate program.

## Department of Military Science

30 Freudenberger House, Phone: 836-5791, FAX: 836-5792  
Email: MilitaryScience@missouristate.edu

**Department Head:** Professor LTC Brendan McKiernan, M.B.A.

**Associate Professors:** CPT Jon Bryan, B.S.; CPT Richard Moore, B.S.; MAJ Rodney Williams, M.A.; CPT Kevin Zammert, B.S.

**Instructors:** SFC Robert Hodapp, MSG Mark Thompson

Since 1952 the Military Science program (Army ROTC) has prepared college men and women for commissions as Second Lieutenants in the United States Army, the Army National Guard, and the Army Reserves. The ROTC program is divided into two elective courses; the Basic Course and the Advanced Course. Enrollment in all Basic Course classes is limited to full time freshmen and sophomore students. Students who enroll in Basic Course classes receive leadership, management, and confidence-building instruction which will be of great value in any career field they enter. Enrollment in the Advanced Course classes is restricted to students who meet departmental criteria and who willingly accept a commission as an Army officer with a military service obligation. All non-US citizens must have department permission prior to enrolling in any Military Science class.

**Basic Course:** The Basic Course encompasses two freshman and four sophomore Military Science classes. There are prerequisites for some of the classes, please check Basic Course class descriptions (below) for specifics. There is **no military service obligation** for enrolling in any of the Basic Course classes. The primary objective of the Basic Course is to provide college students with an understanding of the United States Army in general and Army ROTC in particular. Additionally, students who complete three Basic Course classes and meet departmental criteria, qualify for enrollment in the Advanced Courses, if they decide to continue in the Military Science program and earn an officer's commission in the U.S. Army.

**Advanced Course:** The Advanced Course consists of two 300-level and two 400-level Military Science classes (see class descriptions below). Enrollment in all Advanced Course classes is by departmental permission. The primary objective of the Advanced Course is to prepare qualified college students for military service as Second Lieutenants in the United States Army, the Army National Guard, and the Army Reserves. Students who are accepted into this program receive \$250-\$400 per month (tax-free) for 10 months of both their Junior and Senior years. Additionally, Advanced Course students attend a six-week summer camp, normally between their Junior and Senior year. Students receive a salary while at camp, have meals and housing provided by the Army, and receive reimbursement for travel to and from the camp. Upon completion of the four Advanced Course classes, summer camp, and a bachelors degree, students are commissioned as Second Lieutenants in the U.S. Army. Students may elect to complete their military service either full time in the U.S. Army or part-time in the Army National Guard or Army Reserves.

All students in the Advanced Courses, prior to graduation, are required to take at least one course in each of the following four fields of study: Written Communications, Computer Literacy, Math Reasoning and Military History. The Written Communications and Math Reasoning requirements are satisfied by meeting the University's General Education requirements. The Computer Literacy requirement is satisfied by completing one of the following courses; CIS 101, CSC 101 or CSC 121. The Military History requirement is satisfied by HST 315. Advanced Course students are also encouraged (but not required) to take a course in the fields of national security affairs and management, if their degree programs allow. Additionally, all Advanced Course students and ROTC Scholarship students must participate in a regularly scheduled physical fitness program.

**Scholarships:** The Army ROTC Scholarship program is open to all full time University students. 2-year and 3-year scholarships are awarded each year on a best qualified basis and students **need not be enrolled**

in Military Science classes to compete. Army ROTC Scholarships provide full tuition, pay lab fees, educational fees and book costs, plus a monthly tax free allowance of \$250-\$400 for 10 months of each school year of the scholarship. Students who receive an Army ROTC Scholarship incur a military service obligation which is completed after graduation either full time in the U.S. Army or part-time in the Army National Guard or Army Reserves.

**Leader's Training Course:** Students who decide they want an Army officer's commission but have never taken a Military Science class, nor had any previous military training can still qualify for entry into the Advanced Course, provided they have at least two academic years remaining in their degree program. Attendance at a four week summer camp, called the Leader's Training Course (LTC), qualifies students for the Advanced Course and eventually, a commission. Students who elect to attend LTC also receive a salary while at camp, have meals and housing provided by the Army, and receive reimbursement for travel to and from the camp. As a special incentive, students can compete for 2-year Army ROTC Scholarships while at LTC. These scholarships are awarded on the basis of college academic record, leadership potential, and performance at the camp. Additionally, students can receive 5 credit hours for attending LTC (See MIL 225).

**Veterans:** Students who are veterans of honorable military service (all branches of the Armed Forces, active and reserves) may be eligible for enrollment in the Advanced Course by virtue of their previous military training and experience. This option (called advanced placement) allows military veterans to complete the ROTC program in just two years, rather than four. Veterans who elect this option **do not lose any** of their GI Bill entitlements and still receive the monthly \$250-\$400 tax free allowance from ROTC.

**Uniforms and Texts:** Textbooks are supplied for all ROTC courses. Uniforms are provided when required. Freshman and Sophomore students are furnished uniforms if required. Advanced Course students are furnished uniforms and accessory items.

**MIL 225 and MIL 325 fees:** Students enrolling in MIL 225 and MIL 325 will be charged a fee of \$150. This fee is *instead of* the Basic Fees, not *in addition* to those fees.

## Minors

### Military Science

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Science in Education

#### (Non-Certifiable)

- A. MIL 301(3), 302(3), 411(3), 412(3); HST 315(3)
- B. Complete one course in each of the following fields of study:
  1. Communication Skills: ENG 310(3), 321(3), GLG 358(3), or COM 115(3).
  2. Computer Literacy: CIS 101(2), CSC 101(2), or CSC 121(3)

## Basic Courses

### MIL 101 Introduction to Military Science. 2(2-0) F,S.

This course will focus on basic pistol and rifle marksmanship. Students will get the opportunity to handle, learn the maintenance and proper way to fire, real US Army small arms weapons (M16A2 automatic rifle, M60 machine gun, M9 9mm Pistol). Students will have the option to exempt

the final exam by attending a one day field trip to Camp Crowder to shoot on a real Army M16 qualification range. Additionally, students will get exposure to classes on basic military customs and courtesy.

**MIL 102 Introduction to Basic Military Skills.** 2(2-0) F,S.

This course will focus solely on the basic survival skills; land navigation, First Aid, acquiring food and water, firecraft, building survival shelters, mountaineering (rappelling, rock climbing, one rope bridge, knot tying). Students have the opportunity to exempt the final exam by attending a one day, one night survival field training exercise.

**MIL 125 Leadership Fitness.** 1(0-3) D.

Prerequisite: permission of the instructor. Development of individual fitness and acquire the skills necessary to lead group fitness training. May be repeated for a total of 3 hours, but only one credit hour may be used to satisfy the Physical Well-Being requirement in General Education for students completing general education requirements in effect prior to fall 1997.

**MIL 211 Basic Military Skills and Techniques.** 2(2-1) F.

Prerequisite: MIL 101 or 102, and less than 50 semester hours or permission. Introduction to techniques of survival in various situations and climates, and pistol marksmanship.

**MIL 212 Military Fundamentals Practicum.** 2(2-1) S.

Prerequisite: two semesters of Military Science or permission. The class is designed for the military science students who desire accelerated instruction on rifle marksmanship, communications, map reading (to include the compass), and patrolling. The student will be required to wear a military uniform and meet Army appearance standards.

**MIL 220 Basic Military Science Fundamentals.** 2-5, Su.

Prerequisite: permission. Organization and mission of ROTC; the role of the U.S. Army in American history and the application of the principles of war; leadership theory and practice; introduction to military operations and basic tactics; instruction in marksmanship, land navigation and communication.

**MIL 225 Basic Military Science Practicum.** 5. F,Su.

Prerequisite: permission. A 6-week course conducted at Fort Knox, KY. The training is rugged and intensive with emphasis placed on leadership application, practical work and physical conditioning. Training will be conducted six days a week out-of-doors and requires active participation by all students. Enrolled students receive compensation for travel, lodging and food.

## Advanced Courses

**MIL 301 Military Leadership and Operations.** 3(3-1) F.

Prerequisite: permission. Introduction to small unit tactics; principles of military leadership, to include theory, responsibilities, techniques, and practice; branches of the U.S. Army, oral presentation techniques and practice. One field trip is required. This course may not be taken Pass/Not Pass.

**MIL 302 Military Skill Building.** 3(3-1) S.

Prerequisite: permission. Small unit tactics; applied military leadership (builds on knowledge gained in MIL 301) with special emphasis on the junior leader's duties and responsibilities. Two field trips are required. This course may not be taken Pass/Not Pass.

**MIL 325 Advanced Military Science Practicum** 5(5-0) F,Su.

A prerequisite to receive a commission in the U.S. Army through R.O.T.C. and for MIL Science 411 and 412. The 5-week course is conducted at Fort Lewis, Washington. The instruction, training and evaluation focuses on the professional development issues required to become an Army Officer. The primary focus is on evaluating the student's leadership potential through this mentally and physically demanding camp. The training and evaluation is conducted seven days a week for five weeks and requires active participation by all students. The student is placed in leadership positions which require him/her to lead up to 120 fellow students for extended periods of time. Enrolled students receive compensation for travel, lodging and food.

**MIL 411 Military Qualification Skills for the Advanced Cadet.**

3(3-1) F.

Prerequisite: permission. Ethics and professionalism of the military officer; Army command staff functions; oral presentation techniques and practice; military leadership at junior officer level; world change and military obligations. One field trip is required. This course may not be taken Pass/Not Pass.

**MIL 412 Transition from Cadet to Lieutenant.** 3(3-1) S.

Prerequisite: permission. Military justice system; army supply and logistics procedures and responsibilities; officer management system; obligations and responsibilities of a military officer; military leadership at junior officer level. Two field trips are required. This course may not be taken Pass/Not Pass.

**MIL 496 (414) Readings/Research in Military Science.** 1-3, F,S.

Prerequisite: permission. Planned readings and research on subjects in or related to Military Science. May be repeated for a total of 3 hours. This course may not be taken Pass/Not Pass.



## Department of Philosophy

231 Strong Hall, Phone: 836-5650, FAX: 836-4775  
Email: [Philosophy@missouristate.edu](mailto:Philosophy@missouristate.edu)

**Department Head:** Associate Professor Pamela R. Sailors, Ph.D.

**Professors:** Bertrand P. Helm, Ph.D.; Jack Knight, Ph.D.; Joseph Martire, Ph.D.; Jon S. Moran, Ph.D.; Johnny Washington, Ph.D.

**Associate Professor:** Daniel A. Kaufman, Ph.D.

**Emeritus Professor:** William R. Brown, Ph.D.

### Credit By Examination

Credit for PHI 110 is available for International Baccalaureate (IB) Subject Examination. See the "Academic Regulations/Credit By Exam" section of this catalog for information.

### General Education Courses

PHI 115 may be used toward the Humanities Perspective of the Culture and Society Area of Inquiry and PHI 105 or 110 may be used toward the Humanities Perspective of the Self-Understanding Area of Inquiry of the General Education requirements.

## Major

### Philosophy (Non-Comprehensive) Bachelor of Arts

- A. General Education (see General Education section of catalog)
- B. Major Requirements\*
  1. Logic and Analytical Reasoning: PHI 206(3)
  2. Ethics and Social Thought.  
Select three hours from Moral Theory: PHI 340(3), 345(3) and three hours from Applied Ethics: PHI 302(3), 343(3), 513(3)
  3. History of Philosophy: PHI 306(3) and 310(3)
  4. Theory of Knowledge and Metaphysics. Select three hours from: PHI 318(3), 325(3), 335(3)
  5. Philosophical Perspectives and Area Studies.  
Select three hours from: PHI 300(3), 312(3), 314(3), 315(3), 319(3), 320(3)
  6. Complete an additional 12 hours of Philosophy courses. Major requires a minimum of 33 hours including at least 24 hours of upper division credit in the discipline.  
*\*PHI 197, PHI 397, and PHI 496 may satisfy a distribution requirement for the major or minor when their topics are deemed suitable by the department.*
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog.)

## Minors

### Philosophy

#### Bachelor of Arts

#### Bachelor of Fine Arts

#### Bachelor of Science

#### Bachelor of Science in Education

#### (Non-Certifiable)

#### Bachelor of Social Work

- A. Select either PHI 105 or PHI 206. Select one course from each of the following two disciplinary areas listed under the requirements for the Philosophy major: Ethics and Social Thought and History of Philosophy. PHI 197, 397, and 496 may satisfy a distribution requirement for the major or minor when their topics are deemed suitable by the department.

- B. Complete an additional nine hours of Philosophy courses. Minor requires a minimum of 18 hours including at least nine hours of upper division credit.

## Philosophy Courses

### PHI 105 Critical Thinking. 3(3-0) F,S.

This course develops intellectual self-awareness by teaching the canons and skills of critical reasoning. Deductive and inductive reasoning, the application of logic to a variety of significant issues, and the relation between language and argumentation will be studied.

### PHI 110 Introduction to Philosophy. 3(3-0) F,S.

This course explores various ways of understanding the human self and its relation to the world. Through a consideration of what can be known, what is worth valuing, what reality is, and how human communities should be composed and regulated, the course deals with central themes that arise from the human quest for deeper self-understanding.

### PHI 115 Ethics and Contemporary Issues. 3(3-0) F,S.

This course examines ethical principles and theories in relation to contemporary moral issues (e.g. euthanasia, capital punishment, economic justice, environmental issues, world hunger). Through a consideration of ideals of justice and human dignity, as well as concepts of rights and responsibilities, it also explores the moral requirements for community and justified political order.

### PHI 197 (180) Perspectives in Philosophy. 1-3, D.

A variable content course designed to explore the philosophical significance of issues of cultural, social or individual importance. Students should consult the registration schedule to determine the topic to be covered in a given semester. The course may be repeated to a maximum of 6 hours as topics change.

### PHI 206 (106) Elements of Symbolic Logic. 3(3-0) S.

An introduction to the use of symbolic techniques to represent and evaluate arguments from everyday usage. There is an emphasis upon the student's development of an understanding of the methods and concepts of present day logic. Does not count toward the previous or present general education program.

### PHI 300 (220) Philosophical Ideas in Literature. 3(3-0) D.

Prerequisite: 3 hours of philosophy or literature or permission of instructor. Selected works of Western literature in light of their relation to historical trends in philosophy and philosophical speculation in the areas of metaphysics, epistemology, value theory, social and political philosophy.

### PHI 302 Environmental Ethics. 3(3-0) D.

This course critically examines various philosophical viewpoints that bear upon ethical issues concerning the environment. Among the questions examined are the following: Must concern for the environment revolve around human concerns? Do animals have rights? Does nature have intrinsic value that must be respected regardless of effects upon humans? What is the relative importance of aesthetic or economic values to environmental questions? Do we have obligations to protect resources for future generations? This course does not count toward any general education requirement.

**PHI 306 (206) History of Western Philosophy: Ancient.** 3(3-0) F.

Prerequisite: 3 hours of philosophy or permission of instructor. Historical study of ancient philosophy based on the reading of representative writings of major philosophers.

**PHI 310 History of Western Philosophy: Modern.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. A survey of the major philosophies of the modern period in the Western World, 1550 to 1850, including the work of philosophers who stand in the traditions of Continental rationalism, British empiricism, and German idealism.

**PHI 312 Contemporary Philosophy.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. Contemporary philosophical thought including Philosophical Analysis, Phenomenalism, Existentialism, Vitalism, and important individual philosophers. Major writings of the period studied from both the historical and critical standpoints; influences on contemporary philosophy; major tendencies in contemporary thinking on traditional philosophical problems.

**PHI 314 Asian Philosophy.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. This course compares and evaluates the major philosophies of the Eastern world. It treats selected topics from Indian, Chinese, and Japanese philosophies and examines the basic ideas that underlie the religious and moral viewpoints of these traditions.

**PHI 315 Philosophy of Religion.** 3(3-0) F.

Prerequisite: 3 hours of philosophy or permission of instructor. Religious experience and the problem of man's knowledge of God; currently-held views concerning such issues as the relation between religion and other aspects of human culture.

**PHI 318 Knowledge and Reality.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. Examination of some leading accounts of different ways of knowing, and of some of the different theories about the nature of reality. An additional goal is to clarify the interrelations between knowing and reality.

**PHI 319 Feminist Philosophy.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or GST 170 or permission of instructor. This course examines the major strands of feminist philosophy. It focuses in particular on how issues of gender affect ethical theories and theories of knowledge. This course does not count toward the previous or present general education program.

**PHI 320 Aesthetics.** 3(3-0) F.

Prerequisite: 3 hours of philosophy or permission of instructor. Representative philosophical theories concerning the nature of aesthetic value; the bases of judgements in the arts and literature. Primarily intended for upper division students concentrating in the fine arts, literature or philosophy.

**PHI 325 Philosophy of Science.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. This course investigates the nature and scope of scientific inquiry. It explores the aims and methods of both natural and social sciences as well as the place of science and scientists in society.

**PHI 330 Introduction to Political Theory.** 3(3-0) F. (Identical with PLS 330)

Prerequisite: PLS 101. An introduction to the study of political theory by examining the central questions that animate our attempt to understand and secure the "good life." These concerns include: the nature and

significance of politics; the origin and character of legitimate authority; and the meaning of freedom, the value of citizenship, and the education in virtue and in rights that are necessary to both individual liberty and civic greatness. Bringing insights from classical and modern texts to bear on these fundamental questions of public life, we aim to articulate and defend our own understanding of the ethical obligations and responsibilities that citizens owe to one another. Cannot receive credit for both PHI 330 and PLS 330.

**PHI 335 Philosophy of Mind.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. The course examines representative philosophical views about the nature of mind, with special attention to the issues of the self, consciousness, personal identity and the relation between mind and body.

**PHI 340 Philosophy of Law.** 3(3-0) D.

Prerequisite: 3 hours in philosophy or permission of instructor. A critical introduction to classical philosophical positions concerning the nature and functions of law, followed by a more detailed study of their contemporary successors. Analysis of rival positions will focus both on questions of theoretical justification and on implications for current legal controversies.

**PHI 343 Business Ethics.** 3(3-0) D.

The course investigates fundamental ethical issues that arise within a business environment. The responsibilities of business to consumers, employees and society are examined. Special attention is given to the tensions between moral ideals and business pressures.

**PHI 345 Theories of Ethics.** 3(3-0) D.

Prerequisite: 3 hours of philosophy or permission of instructor. This course examines the nature of ethics and the principles of moral actions and decisions.

**PHI 397 (480) Seminar in Philosophy.** 1-4, D.

Prerequisite: 3 hours of philosophy or permission of instructor. Research in selected topics in philosophy. May focus on ideas of one or more thinkers, a philosophic issue or a branch of philosophy. May be repeated for credit.

**PHI 496 (490) Philosophy Tutorial.** 2-4, D.

Prerequisite: permission of department head. Individual conference course for students with specialized interests in particular areas of philosophy not covered in regular courses. Includes independent research, progress reports and term papers. Enrollment requires advance agreement on topic.

**PHI 513 Health Care Ethics.** 3(3-0) D.

Prerequisite: 60 hours or permission of instructor. An introduction to central ethical questions that arise in the health care context, and to the resources various ethical theories offer for resolving those questions. In addition to a brief overview of contemporary moral theory, the course will discuss issues such as euthanasia, informed consent, proxy decision making, experimental research on humans and health care allocation. Specific cases will be discussed and analyzed throughout the semester. This course does not count toward the previous or present general education program.

**PHI 596 Selected Topics in Philosophy.** 2-4, D.

Prerequisite: permission of department head. Individual conference course for graduate students with specialized interests in particular areas of philosophy not covered in regular courses. May include independent research, progress reports and term papers. Enrollment requires advance agreement on topic.

## Department of Political Science

307 Strong Hall, Phone: 836-5630, FAX: 836-6655  
Email: PoliticalScience@missouristate.edu

**Department Head:** Professor Beat R. Kernén, Ph.D.

**Professors:** Alice Fleetwood Bartee, Ph.D.; Mark C. Ellickson, Ph.D.; Mehrdad Haghayeghi, Ph.D.; Dennis V. Hickey, Ph.D.; Frank Mazzella, Ph.D.; Joel W. Paddock, Ph.D.; Kant B. Patel, Ph.D.; Mark E. Rushefsky, Ph.D.; Patrick G. Scott, Ph.D.

**Associate Professors:** George E. Connor, Ph.D.; James B. Kaatz, Ph.D.; Yuhua Qiao, Ph.D.

**Assistant Professors:** Denise E. Dutton, Ph.D.; Gabriel Ondetti, Ph.D.; Kevin Pybas, Ph.D.; Ken R. Rutherford, Ph.D.; Stacy G. Ulbig, Ph.D.

**Emeritus Professors:** Mary Alice Cantrell, Ph.D.; Frank Dinka, Ph.D.; Gordon D. Friedman, Ph.D.; Robert Peace, M.G.A.; Denny E. Pilant, Ph.D.; Stanley A. Vining, M.A.

**Accreditation:** National Association of Schools of Public Affairs and Administration (NASPAA) – Public Administration, M.P.A.

### Constitution Study (Senate Bill No. 4)

Students with credit for PLS 101 that did not include a study of the Missouri constitution must complete PLS 103 to meet this requirement. See “Undergraduate Degrees and Requirements/Constitution Study” section of this catalog for information.

### Credit By Examination

Credit for PLS 101 is available for the Advanced Placement (AP) Examination and the College Level Examination Program (CLEP) Subject Examination. Such students must complete PLS 103 to meet the Missouri constitution study requirement (Senate Bill No. 4). See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### General Education Course

PLS 101 must be taken with HST 121 or 122 to satisfy the American Studies requirement of the Public Affairs component in General Education.

## Majors

### Political Science (Non-Comprehensive)

#### Bachelor of Arts

A. General Education (see General Education section of catalog)

B. Major Requirements (36 hours)

1. PLS 102(3); PLS 205(3)\* or 232(3)\*\*; PLS 492(0)
2. Complete one course in each of the following seven political science fields:
  - a. American Government and Politics: PLS 315(3), 316(3), 317(3), 319(3), 413(3), 414(3), 419(3)
  - b. Empirical Political Science: PLS 475(3), 573(3), 576(3)
  - c. International Politics: PLS 232(3), 437(3), 535(3), 539(3), 547(3), 555(3)
  - d. Comparative Governments and Politics: PLS 205(3), 341(3), 343(3), 346(3), 348(3), 544(3), 545(3), 547(3), 550(3)
  - e. Public Administration: PLS 255(3), 315(3), 351(3), 354(3), 356(3), 498(3), 551(3), 555(3), 573(3)
  - f. Political Theory: PLS 561(3), 563(3), 565(3), 567(3)
  - g. Public Law: PLS 330(3), 419(3), 437(3), 451(3), 515(3), 517(3), 519(3)

\* PLS 205 may not double-count toward this requirement and the International Politics requirement.

\*\* PLS 232 may not double-count toward this requirement and the Comparative Governments and Politics requirement.

3. Complete an additional 9 hours of Political Science electives to total at least 36 hours.

PLS 397, 399, 493, 494, 495, 496, 497, 598 will be assigned to fields according to topic. PLS 576 is strongly recommended for students planning to pursue graduate study in political science and/or public administration. No more than six hours of credit will be counted toward the major from PLS 399, 493, 494, 498.

C. Minor Required

D. Specific Requirements for Bachelor of Arts Degree (see “Academic Programs and Requirements” section of catalog)

E. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Political Science (Non-Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

B. Major Requirements (45 hours)

1. PLS 102(3); PLS 205(3)\* or 232(3)\*\*; PLS 492(0), 576(3); SOC 302 or equivalent
2. Complete one course in each of the seven political science fields listed under the Bachelor of Arts major.
3. Complete an additional 12 hours of Political Science electives to total at least 45 hours.

\* PLS 205 may not double-count toward this requirement and the International Politics requirement.

\*\* PLS 232 may not double-count toward this requirement and the Comparative Governments and Politics requirement.

**It is highly advisable to supplement this major with MTH 285.** PLS 397, 399, 493, 494, 495, 496, 497, 598 will be assigned to fields according to topic. No more than six hours of credit will be counted toward the major from PLS 399, 493, 494, 498.

C. Minor Required

D. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Political Science (Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

B. Major Requirements (63 hours)

1. PLS 102(3), 205(3), 492(0), 576(3); SOC 302 or equivalent
2. Complete one course in each of the seven political science fields listed under the Bachelor of Arts major.
3. Complete a block of 30 additional hours selected in consultation with the advisor and approved by the department head. Of the 30 hour block, 12 must be from political science and 12 must be from other disciplines.

**It is highly advisable to supplement this major with MTH 285.** PLS 397, 399, 493, 494, 495, 496, 497, 598 will be assigned to fields according to topic. No more than six hours of credit will be counted toward the major from PLS 399, 493, 494, 498.

C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Public Administration (Non-Comprehensive)

#### Bachelor of Arts

A. General Education (see General Education section of catalog)

B. Major Requirements (45 hours)

1. PLS 102(3), 255(3), 351(3), 354(3), 356(3), 492(0), 576(3); SOC 302(3) or equivalent
2. Complete 24 hours of electives chosen from the following courses: PLS 205(3), 312(3), 315(3), 330(3), 399(1-3), 413(3), 414(3),

419(3), 451(3), 475(3), 495(1-6), 498(3), 551(3), 555(3), 563(3), 565(3), 573(3)

No more than six credit hours will be counted toward the major from PLS 399 and 498.

- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### **Public Administration (Non-Comprehensive) Bachelor of Science**

- A. General Education (see General Education section of catalog)
- B. Major Requirements (45 hours)
  1. PLS 102(3), 255(3), 351(3), 354(3), 356(3), 492(0), 576(3); SOC 302(3) or equivalent
  2. Complete 24 hours of electives chosen from the following courses: PLS 205(3), 312(3), 315(3), 330(3), 399(1-3), 413(3), 414(3), 419(3), 451(3), 475(3), 495(1-6), 498(3), 551(3), 555(3), 563(3), 565(3), 573(3)

No more than six credit hours will be counted toward the major from PLS 399 and 498.
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## **Minors**

### **International Relations**

#### **Bachelor of Arts**

#### **Bachelor of Science**

- A. PLS 205(3), 232(3), 535(3)
- B. Complete nine additional hours from the following list to total a minimum of 18 hours, two of these courses must be PLS courses: PLS 330(3), 341(3), 343(3), 346(3), 348(3), 437(3), 539(3), 544(3), 545(3), 547(3), 555(3), 565(3); DSS 301(3), 401(3); ECO 565(3); GRY 323(3), 507(3)

**Students majoring in political science may only count PLS 205 for both the major and minor in International Relations.**

### **Political Science**

#### **Bachelor of Arts**

#### **Bachelor of Science**

#### **Bachelor of Science in Education**

**(Non-Certifiable)**

#### **Bachelor of Social Work**

- A. PLS 101(3)
- B. Complete courses from at least two of the seven political science fields listed in the Political Science major to total a minimum of 18 hours. No more than three credit hours will be credited towards the minor from PLS 399, 493, 494, 498.

### **Public Administration**

#### **Bachelor of Arts**

#### **Bachelor of Science**

#### **Bachelor of Science in Education**

**(Non-Certifiable)**

#### **Bachelor of Social Work**

- A. PLS 101(3), 102(3), 255(3), 354(3)
- B. PLS 351(3) or 356(3); and PLS 563(3) or 565(3)

### **Public Law**

#### **Bachelor of Arts**

#### **Bachelor of Science**

#### **Bachelor of Social Work**

- A. PLS 419(3), 515(3), 517(3), 519(3)
- B. Complete six hours from the following list to total 18 hours: CRM 210(3); PHI 340(3); PLS 451(3), 493(1-3), 551(3), 567(3); PSY 320(3); RIL 231(3), 531(3); SOC 380(3)

No more than three credit hours of courses taken for the B.A. and B.S. Political Science major may be counted on the Public Law minor.

## **Graduate Programs**

Master of Public Administration and Master of International Affairs and Administration degrees are offered. See the Graduate Catalog for details.

### **Accelerated MPA Program**

Exceptional undergraduate political science or public administration majors may apply to participate in the Accelerated Master of Public Administration program. If accepted, up to twelve hours of 500- and 600-level PLS courses may be counted toward both the undergraduate and graduate degrees. Students who participate in this program will be given the opportunity to complete their bachelor and master degrees in ten semesters and a summer, rather than the twelve semesters normally required. Applications are made to the Department Head and are subject to the approval of the Graduate College. Applicants must have Junior standing, a 3.50 grade point average in political science or public administration, and a 3.00 overall grade point average. See the Graduate Catalog for further details.

## **University Certificate**

A graduate level certificate program is available in Public Management. See Graduate Catalog for details.

## **Political Science Courses**

### **PLS 101 American Democracy and Citizenship.** 3(3-0) F,S.

The course familiarizes students with the institutions and constitutional framework of the United States and Missouri. The course emphasis is on the values, rights, and responsibilities that shape the public decision making of active and informed citizens and influence contemporary public affairs in a democratic society.

### **PLS 102 Introduction to American Public Policy.** 3(3-0) F,S.

Prerequisite: PLS 101. This course deals with the process of policy formulation and with the historical development of specific public policies in such fields as economics, foreign affairs, education, business and labor, social welfare, criminal justice, health and environment.

### **PLS 103 Missouri Government and Politics.** 1(1-0) F,S.

The course familiarizes students with the institutions and constitutional framework in Missouri. This course will partially fulfill Senate Bill 4 requirements with respect to the Missouri Constitution and institutions. (Students who have received credit for PLS 101 at Missouri State or have received Senate Bill 4 transfer credit are precluded from taking PLS 103 for credit. Students who enroll in PLS 103 prior to taking PLS 101 will lose their credit for PLS 103.)

### **PLS 169 Introduction to Political Science.** 3(3-0) D.

An introduction to the contemporary concerns and historical development of political science as a social science and as a mode of critical thinking about politics and society. Emphasis is upon acquainting students with the scope of intellectual inquiry and the specialized sub-fields of study of modern political science rather than with the particular characteristics of American government and politics.

**PLS 205 Introduction to Comparative Government.** 3(3-0) F,S.  
Prerequisite: PLS 101. An introductory comparative study of the principles, techniques, and policy issues of government in constitutional democracies and authoritarian regimes. The course focuses on selected West European (Britain, France, Germany) and non-West European (Japan, Mexico, Russia) countries, and the evolution of the European Community.

**PLS 232 International Relations.** 3(3-0) F,S.

Prerequisite: PLS 101. Conflict and cooperation in the nation-state system. Theories on international organization, power politics, regional integration, nationalism, war. Problems of developing areas such as Africa, Latin America and Southeast Asia.

**PLS 255 Public Administration.** 3(3-0) F,S.

Prerequisite: PLS 101. American administrative organization and activities; centralization, decentralization and relation between the administration and other branches of government.

**PLS 300 Service Learning in Political Science.** 1, F,S.

Prerequisite: 30 hours and concurrent registration in a Political Science course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Political Science to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**PLS 312 The Aged: Policies and Politics.** 3(3-0) D.

Prerequisite: PLS 101. Survey of public policies and their impact upon groups, elite and non-elite participation, historical development of policy, administrative structure and politics.

**PLS 315 Federalism and Intergovernmental Relations.** 3(3-0) S.

Prerequisite: PLS 101. Nature of American Federalism and the dynamics of intergovernmental relationships; the course examines the role of the national and the state governments in intergovernmental relations as well as the state, local, interstate and interlocal relations. Issues of federal grants, fiscal outlook of cities, problems of inner cities, and metropolitan governments are also discussed.

**PLS 316 Political Parties, Elections and Interest Groups.** 3(3-0) F.

Prerequisite: PLS 101. A survey of the nature, evolution and functions of parties, elections and interest groups in the United States. An emphasis will be placed on the role played by these institutions in linking citizens to the public policy process.

**PLS 317 American Political Behavior.** 3(3-0) FE.

Prerequisite: PLS 101. An examination of various approaches to analyzing mass and elite political behavior in the United States. An emphasis will be placed on survey research, public opinion, political socialization, political psychology and voting behavior.

**PLS 319 Women in Politics.** 3(3-0) SE.

Prerequisite: PLS 101. A survey of various aspects of the role of women in politics. The course will include an examination of the place of women in political history, women as political leaders, the ways in which women impact government, and public policies relating to women and families.

**PLS 330 Introduction to Political Theory.** 3(3-0) F. (Identical with PHI 330)

Prerequisite: PLS 101. An introduction to the study of political theory by examining the central questions that animate our attempt to understand and secure the "good life." These concerns include: the nature and significance of politics; the origin and character of legitimate authority; and the meaning of freedom, the value of citizenship, and the education in virtue and in rights that are necessary to both individual liberty and civic greatness. Bringing insights from classical and modern texts to bear on these fundamental questions of public life, we aim to articulate and defend our own understanding of the ethical obligations and responsibilities that citizens owe to one another. Cannot receive credit for both PHI 330 and PLS 330.

**PLS 333 Modern United Nations.** 1(1-0) F.

Prerequisite: member of the Missouri State University World Affairs Council; and instructor permission required. This course is designed to provide an opportunity for in-depth role playing that leads to a better understanding of the United Nations, the study of current events, important international disagreements, key international conventions, and the protocol and procedures of UN diplomacy. In the fall, the students will participate as a UN Officer at the Missouri State University Mid-American Model UN conference, and prepare for their role as a distinguished diplomat at the American Model United Nations conference held in Chicago. In addition, the student will help prepare Mid-American Model UN briefs. This course can be repeated for a maximum of three credit hours.

**PLS 341 Anglo-American Political Systems.** 3(3-0) S.

Prerequisite: PLS 101. Political cultures and government institutions of nations possessing an Anglo-American political heritage. Political systems of the United Kingdom, the United States, Canada, Australia and India; role and influence of those systems upon the governments of emerging nations in Africa and Asia.

**PLS 343 Post-Soviet Politics.** 3(3-0) SO.

Prerequisite: PLS 101. The politics and governments of the former Soviet Union, its Marxist-Leninist ideology, and the dominant role of the Communist Party will be used to illustrate the dramatic changes having taken place since 1991. Political and economic reforms introduced by Gorbachev will be highlighted, and reasons for the Soviet Union's subsequent collapse and the establishment of Russia and other Independent States of the former Soviet Union will be discussed.

**PLS 346 Political Violence and Terrorism.** 3(3-0) D.

The central concern of this course is the systematic study of political violence in its different forms. The course content is structured along a continuum, ranging from small scale violence to mass violence-assassinations, terrorism by sub-national and transnational organizations, state terror and genocide. Violence in the pursuit of political objectives has been a part of the human condition since the beginning of recorded history. In recent times, acts of violence have occurred worldwide with alarming frequency. The United States has also been gradually drawn into the global picture of violence committed by both domestic and international terrorists against the civilian and/or government targets.

**PLS 348 Governments and Politics in Latin America.** 3(3-0) F.

Prerequisite: PLS 101. A survey of political, cultural, economic, historical, and social forces in Central and South America. Special attention to Mexico, Cuba, Guatemala, Nicaragua, El Salvador, Honduras, Argentina, Chile, Brazil, Peru, and Venezuela. Focus will be on the role of the military, labor and peasant movement, religion, political parties, and business groups as these relate to the political structure.

**PLS 351 Municipal Government and Administration.** 3(3-0) F.

Prerequisite: PLS 101. A study of the structures and functions of city governments with emphasis on their relations to the state, their legal positions as municipal corporations and the management of municipal services.

**PLS 354 Budget Administration.** 3(3-0) F.

Prerequisite: PLS 101. Methods, principles, devices, and problems of making and controlling budgets in governmental institutions.

**PLS 356 Public Personnel Administration.** 3(3-0) S.

Prerequisite: PLS 101. Governmental personnel practices; recruitment, classification, morale and other personnel management problems.

**PLS 397 Mini Course in Political Issues.** 1(1-0) D.

Prerequisite: permission of instructor. A course upon a single topic of current interest; subject will vary from semester to semester and from section to section depending upon student interest and faculty availability. May be repeated for credit to a maximum of 3 hours. Variable Content Course.

**PLS 399 Cooperative Education in Political Science.** 1-3, D.

Prerequisite: acceptance into the Cooperative Education Program, 9 hours of political science beyond PLS 101; and a 2.50 GPA; and advance permission of the department head. To enable qualified students to apply theoretical constructs and analytical techniques in a supervised work environment. This course cannot be credited toward a major in political science if the student has completed a total of three or more

credits in any combination of the following; PLS 493, PLS 494, PLS 498, or cooperative education in another discipline. Graded Pass/Not Pass only.

**PLS 413 The American Executive.** 3(3-0) S.

Prerequisite: PLS 101. Changing powers and functions of the executive branches of the national and state governments of the United States in the 20th Century; constitutional, administrative and political problems involved.

**PLS 414 The Legislative Process.** 3(3-0) D.

Prerequisite: PLS 101. Theory, principles, procedures and problems of the legislative process in democratic societies; operation of American state and national legislatures.

**PLS 419 The Judicial Process.** 3(3-0) F.

Prerequisite: PLS 101. Sources and nature of law; historical, sociological and philosophical approaches to legal theory. Role of the judiciary as an aspect of the study of political behavior; policy significance and consequences of what judges do and how they do it. Illustrated by case study in selected areas of American constitutional law.

**PLS 437 International Organizations and Law.** 3(3-0) S.

Prerequisite: PLS 101. A study of the role of international organizations, both governmental and non-governmental, in regional and global international politics. A comparison of international organizations and other political institutions. A casebook and lecture examination of the principal elements of international law. A topical approach to governing principle will introduce current problems and define probable trends.

**PLS 451 Criminal Law and Its Enforcement.** 3(3-0) F,S.

An exploration of criminal law and how it is administered by law enforcement agencies.

**PLS 475 Approaches to Political Analysis.** 3(3-0) F,S.

Prerequisite: PLS 101. The course will examine various quantitative and qualitative approaches to political analysis. It will examine scientific concept formation, generalizations, explanations and predictions, and the place of theory in Political Science. The course will also deal with the use of systems theory, decision-making theory, role theory, group theory, personality theory, game theory and others, in the conduct of political inquiry.

**PLS 492 Program Assessment.** 0 F,S.

Prerequisite: senior status and permission of department head. Required assessment of undergraduate political science and public administration programs in the department. All students majoring in political science and public administration are required to enroll in this course during their senior year and pass a Major Field Achievement Test (MFAT). The focus is on program assessment and development rather than on individual student evaluation. Graded Pass/Not Pass only.

**PLS 493 Practicum in Political Science.** 1-3, D.

Prerequisite: 9 hours of Political Science beyond PLS 101 and; 2.50 GPA and; junior-senior status, and advance permission of the department head and advisor. Supervised and departmentally approved part-time work experience related to Political Science in public or private sector. May be repeated to a total of 12 hours, but only 6 hours will be counted toward the major and 3 hours toward the minor. Approximately 5 on-the-job hours per week required for 1 hour credit, in addition to fulfillment of academic requirements. Normally restricted to Political Science/Public Administration majors, minors. Students minoring in Paralegal Studies must take PLS 493 for 3 credit hours. Graded Pass/Not Pass only.

**PLS 494 Professional Internship.** 3-6, D.

Prerequisite: a 2.50 GPA, junior or senior status and; advance permission. Supervised and departmentally approved full-time work experience related to Political Science in public or private sector. May be repeated to a total of 12 hours, but only 6 hours will be counted toward the major. Approximately eight weeks of 40 on-the-job hours per week required for 3 hours credit, in addition to fulfillment of academic requirements. Normally restricted to Political Science/ Public Administration majors. Graded Pass/Not Pass only.

**PLS 495 Senior Honors Project in Political Science.** 1-6, D.

Prerequisite: PLS honors major and; junior-senior standing and; permission of instructor. An individualized research project in a selected field of political science or public administration. The project will involve the preparation of a project proposal in cooperation with an appropriate faculty member serving as project advisor who will approve it along with the Head of the Political Science Department and the Honors College dean. Variable Content Course. May be repeated to maximum of 6 hours total credit.

**PLS 496 Independent Study in Political Science.** 1-3, D.

Prerequisite: permission of instructor and department head and; junior or senior class standing and; 2.50 G.P.A. and; completion of an upper-level course (or acceptable equivalent) in selected area of political science. Students should consult with a professor of the department who specializes in the subject and with the professor's consent present a written proposal to the department head for final approval. Proposals should be presented for approval before final registration for the term in which the independent study is to be done. Only one approved independent study program may be taken in any semester. A maximum of 6 semester hours of credit in PLS 496 may be counted on a major in political science or public administration and 3 semester hours of credit on a minor in the two fields. Written work will be required in PLS 496 in addition to reading assignments and/or research activities.

**PLS 497 Special Topics.** 3(3-0) D.

A course designed to provide a means of study for topics not addressed elsewhere in the curriculum. May be repeated up to a maximum of 6 hours. Variable Content Course.

**PLS 498 In-Service Training in Public Administration.** 3(3-0) F,S.

Prerequisite: 9 hours of Public Administration beyond PLS 255 and; a 2.50 GPA and advance permission of department head and advisor. Supervised field work in an approved local, state, or national government agency including preparation of an acceptable formal report. Graded Pass/Not Pass only.

**PLS 515 Constitutional Law and Politics.** 3(3-0) F.

Prerequisite: PLS 101 and 50 hours, or permission of instructor. The primary purpose of this course is to consider the role and significance of the judicial branch within the American constitutional system, with particular attention given to: the power of judicial review; modes of judicial interpretation; the relative powers of the Court, Congress, and the Executive branch; separation of powers; federalism; the electoral process; and economic rights. This will occur through a careful study of the constitution and a close analysis of Supreme Court decisions, illuminating their political, moral, and social impact on life in America.

**PLS 517 Civil Rights and Liberties in the American Constitutional System.** 3(3-0) S.

Prerequisite: PLS 101 and 50 hours, or permission of instructor. A casebook examination of the constitutional rights of individuals, with emphasis given to the development and current constitutional interpretation of the Due Process and Equal Protection Clauses of the Fourteenth Amendment, and the process of identifying the fundamental rights of race, gender, other protected classes, and privacy.

**PLS 519 Individual Liberties in the American Constitutional System.** 3(3-0) S.

Prerequisite: PLS 101 and 50 hours, or permission of instructor. A casebook examination of the First Amendment liberties of individuals, with emphasis given to the development and current judicial interpretation of the Establishment and Free Exercise of Religion Clauses, and the limitations imposed by the Supreme Court upon the Freedom of Speech and Press.

**PLS 535 American Foreign Policy.** 3(3-0) F.

Prerequisite: PLS 101. An analysis of American foreign policy. The course explores the various governmental institutions and societal forces which shape American foreign policy. The major emphasis is on American foreign policy since World War Two. Current issues in

American foreign policy are discussed in light of contemporary theoretical and methodological approaches.

**PLS 539 (339) Latin America and the United States.** 3(3-0) SO.  
Prerequisite: PLS 101. A comparative study of the political systems of contemporary Latin America with emphasis on relations between the U.S., Central America and South America. An assessment of contemporary economic, political, and strategic ties within the region and internationally will be covered. Special attention will be given to the impact of regional instability and revolutionary changes on the Inter-American System, the strategic interests of the U.S., and the expectations of the Latin Americans.

**PLS 544 (344) Government and Politics of the Middle East.** 3(3-0) FO.

Prerequisite: PLS 101. Political systems, processes and problems of the Middle East, considered both regionally and in the perspective of separate nation-states, from the beginning of the modern period about 1800 to the present.

**PLS 545 Asian Politics.** 3(3-0) SE.

Prerequisite: PLS 101. A comparative study of the political and economic systems of contemporary Asia with emphasis on Japan, Korea, mainland China and Taiwan. Ideologies and strategies pursued by selected Asian governments are covered. Includes an assessment of contemporary economic, political and security issues in the region. America's economic, political and strategic ties with the region are also explored.

**PLS 547 (445) Politics of the European Union and Its Members.** 3(3-0) SE.

Prerequisite: PLS 101. This course will focus on the historical evolution of the European Union (EU) since the 1950s, the ongoing integration process within the organization (vertical integration), and its enlargement beyond the present members (horizontal integration). It will also address the EU's position in global and regional politics, its links to the United States, and the development of international governmental organizations.

**PLS 550 Modern African Politics.** 3(3-0) FO.

Prerequisite: PLS 101. A comparative study of the political and economic systems of contemporary Africa with emphasis on sub-Saharan Africa. Ideologies and strategies pursued by selected African governments are covered, including an assessment of contemporary economic, political, and strategic ties within the region and internationally. The class will emphasize such areas as Mauritania, Senegal, Kenya, Somalia, Nigeria, and South Africa.

**PLS 551 Administrative Law.** 3(3-0) D.

Prerequisite: PLS 101. A study of administrative agencies in their rule making and adjudicatory functions; administrative procedures including hearings and the judicial review thereof; legislative committee operations and their relation to the agencies. After several lecture type presentations by the instructor on the above topics, each student will be expected to present an oral and written review of some area of administrative law which requires further development through agency regulation and/or judicial review.

**PLS 555 Public Policy for a Global Environment.** 3(3-0) D.

Prerequisite: PLS 101. Course examines how environmental policy is made in the United States and the international community. The course covers the institutions and groups that participate in making environmental policy and the process by which it is made. Domestic and international issues and problems explored include clean air, clean water, pesticides, risk assessment and management, toxic and hazardous substances, public lands, the greenhouse effect, and stratospheric ozone depletion.

**PLS 561 Ancient Political Thought.** 3(3-0) FO.

Prerequisite: PLS 101 and 50 hours, or permission of instructor. An introduction to the study of political theory by examining the contributions of classical political theorists and their successors up to the age of the Renaissance. Includes Socrates, Thucydides, Plato, Aristotle, the Epicureans, Cynics and Stoics, Cicero and the Roman Lawyers, early Hebrew and Christian political thought, Augustine and Aquinas.

**PLS 563 Modern Political Theory.** 3(3-0) SO.

Prerequisite: PLS 101 and 50 hours, or permission of instructor. The revolution in ideals brought by the nation-state, modern science, and the industrial revolution. Includes Machiavelli, More, Luther, Calvin, Hobbes, Locke, Rousseau, Bentham, J.S. Mill, Weber, Kant and Hegel.

**PLS 565 Contemporary Political Ideologies.** 3(3-0) SE.

Prerequisite: PLS 101 and 50 hours, or permission of instructor. A systematic study of the major competing ideologies of the 19th and 20th Centuries, including conservatism, liberalism, nationalism, Marxism, democratic socialism, fascism and national socialism, and others. Special emphasis is placed on the historical sources philosophical foundations and argumentative structure of these influential ideologies.

**PLS 567 American Political Thought.** 3(3-0) D.

Prerequisite: PLS 101. Political ideas in American institutional and historical development. An examination of the relations between American thought and political structures and processes.

**PLS 573 Policy Analysis.** 3(3-0) S.

Prerequisite: PLS 102. A study of the major qualitative and quantitative techniques in public policy analysis. The course will examine diverse processes of public policy formulation, and analyze various public policy alternatives. Each student will complete an empirical research project.

**PLS 576 Quantitative Methods of Political Science and Public Policy.** 3(3-0) F,S.

Prerequisite: 50 credit hours including PLS 101, and SOC 302 or equivalent; or permission of instructor. Introduction to the use of standard computer programs (especially SPSS) for the analysis and interpretation of political and social data. Covers analysis of nominal and ordinal data, descriptive and inferential statistics, hypothesis testing, correlation, linear and multiple regression. There will be a critical review of the applications of these techniques to the analysis of political science and public policy research questions, including ethical issues associated with quantitative research.

**PLS 598 (549) Seminar in Political Science.** 1-3, D.

Prerequisite: PLS 101 and 90 hours, and permission of instructor and department head. A research oriented course in selected problems in political science. May be repeated for credit. Variable Content Course.

*The following courses are open only to graduate students.*

**PLS 605 Seminar in Comparative Politics.** 3(3-0) F.

An examination of the principal approaches to comparative politics including the comparative study of political systems, types of government, elites, legislatures, political cultures and political parties. Students in the M.I.A.A. program will be required to write an extensive bibliographic or substantive research paper on one of these principal elements in the study of comparative politics.

**PLS 612 Seminar in American Politics.** 3(3-0) F.

The goal of the course is to develop the student's analytical and critical skills by discussing and critiquing a variety of readings over the following topics: political values and ideologies, political participation, political parties, presidency, congress, judiciary, bureaucracy, public policy, and political economy. Each student will complete a major research paper related to one of these topics.

**PLS 613 Seminar in Foreign Policy Decisionmaking.**

3(3-0) S.

An examination of the factors that shape foreign policy decisionmaking, especially as they have evolved in the 20th century in the United States. In addition to an examination of the governmental institutions and societal forces that influence policy, students will critically analyze decisionmaking models that have been developed to explain how and why foreign policy decisions are made.

**PLS 615 Comparative Public Administration.** 3(3-0) F.

The course will review the literature on the study of comparative public administration. The body of the course will focus on substantive public management issues in a variety of countries. Students will be expected to understand the rationale for the subfield, its development, and develop the skills needed to conduct scientific analysis.

**PLS 632 International Relations in Theory and Practice.** 3(3-0) F.

An examination of the principal paradigms and approaches in the study of international relations as they have evolved, particularly in the 20<sup>th</sup> century, and their usefulness for understanding the practice of global affairs. Students will familiarize themselves with both theoretical and substantive aspects of international relations and global affairs. Completion of a major research project focusing on an issue or region and analyzing it from a theoretical perspective is required.

**PLS 637 Seminar in International Organizations and Administration.** 3(3-0) S.

A study of the historical development and theoretical foundations of international organizations and administration. Readings and research will emphasize recent issues and developments in both regional and global aspects in the organization and administration of the international system.

**PLS 652 Public Personnel Management.** 3(3-0) F.

Intensive examination of the management of personnel focused directly on the public sector at the federal, state, and local levels. The course will explore the development, structure, and procedures of the public service. Issues of public personnel management to be examined include: perspectives on the public service, merit and patronage systems, labor relations, civil service reform, anti-discriminatory policies, and productivity and accountability.

**PLS 653 Management Techniques and Organizational Behavior.** 3(3-0) S.

A core lecture course designed to familiarize the student with the development of managerial skills through MBO, decision making theory, strategy implementation, change theory and development administration, problem solving, coordination within the organization, communication techniques and effecting productivity. Emphasis will be placed upon the applicability of management and organizational theory to the public sector.

**PLS 654 Seminar in Health Policy.** 3(3-0) D.

Politics of health policy formulation and planning. A study of participants in policy formulation, role of the different levels of government, issues and problems in health care planning, interrelationship of agencies involved, medicare, medicaid, national health insurance.

**PLS 655 Seminar in Public Management.** 3(3-0) S.

Designed to convey knowledge of management systems and processes, information systems, personnel administration, finance and budgeting and program evaluation and control.

**PLS 656 Financial Management for State and Local Government.** 3(3-0) F.

A course dealing with intergovernmental financial relations, revenue sources, tax strategies, bond requirements, and issuance procedures, sinking funds, budget techniques and basic categories of state and local expenditures.

**PLS 657 Topics Seminar in Public Policy and Administration.** 3(3-0) D.

The specific topics will change from semester to semester, and will include such subjects as education, welfare, health, poverty, administration of affirmative action laws, and energy policy; may be repeated as topics change. Variable Content Course.

**PLS 658 Seminar in Health Care Organization.** 3(3-0) D.

Intensive analysis of institutions and organizations involved in providing public health care at different levels of government, as well as the role of the private sector.

**PLS 659 Seminar in Administrative Management and Organizational Theory.** 3(3-0) D.

Prerequisite: PLS 653. A topics seminar in which each student will be responsible for an individual research project. Research will include both a review of applicable literature and a case study of an actual management or organizational problem-situation within a government office. This project will be preceded by a concise review of basic management principles and organizational theory.

**PLS 660 Management of Intergovernmental Relations.** 3(3-0) D.

The course is designed to familiarize students with the nature and scope of intergovernmental relations and how they impact issues such as fiscal management, grantsmanship, public policy formulation, public program monitoring and administration.

**PLS 662 Public Policy and Program Evaluation.** 3(3-0) D.

The course is designed to familiarize students with the nature and role of evaluation in the policy process. Topics will include but not be limited to: the various types of evaluation, evaluation methods, evaluability assessment, program monitoring, impact assessment, process assessment, utilization of evaluation findings, and the politics of evaluation.

**PLS 663 The Policy Process.** 3(3-0) D.

This course is designed to explore how public policy is made at all levels of government in the United States. Approximately two-thirds of the course will focus on the policy process; the remainder will concentrate on two or three major policy issues. Students will do an extended paper on a policy issue applying the concepts from the first part of the course.

**PLS 670 Seminar in Political Science.** 3(3-0) D.

Prerequisite: 24 credit hours undergraduate work in social sciences. Advanced research in selected political science topics. May be repeated once for credit.

**PLS 671 Seminar in Public Administration.** 3(3-0) F.

This course is designed as the foundation course for the Master of Public Administration program. Topics covered include the development of public administration, political, social, economic, and legal processes and institutions, the policy process, and values and ethics. All students will complete a major research paper related to one of these topics.

**PLS 680 Independent Study in Political Science.** 1-4, F,S.

Prerequisite: permission of instructor and department head. Carefully planned independent study designed on an individual basis for the advanced student who wishes to investigate a well defined problem not dealt with adequately by standard courses. May be repeated for credit.

**PLS 681 (581) In-Service Training in Public Administration.** 3(3-0) F,S.

Prerequisite: permission of department head. Supervised field work in an approved local, state, or national governmental agency including preparation of an acceptable formal report. Students who have completed PLS 581 cannot take PLS 681.

**PLS 697 Special Topics in Global Affairs.** 3(3-0) D.

The specific topics will change from semester to semester, and will include subjects such as international humanitarian law, comparative foreign policy, global Islamic movements, and globalization. May be repeated as topics change. Variable Content Course.

**PLS 699 Thesis.** 1-6.

Prerequisite: permission of department head. Independent research and study connected with preparation of thesis.



## Department of Religious Studies

279 Strong Hall, Phone: 836-5514, FAX: 836-4757  
Email: ReligiousStudies@missouristate.edu

**Department Head:** Professor James C. Moyer, Ph.D.

**Blanche Gorman Strong Endowed Chair in Protestant Studies:** Associate Professor John Schmalzbauer, Ph.D.

**Professors:** LaMoine F. DeVries, Ph.D.; John E. Llewellyn, Ph.D.; Victor H. Matthews, Ph.D.; Kathy J. Pulley, Ph.D.

**Associate Professors:** Stephen C. Berkwitz, Ph.D.; Mark D. Given, Ph.D.; John T. Strong, Ph.D.

**Assistant Professor:** Leslie A. Baynes, M.A.; Martha L. Finch, Ph.D.; Robert P. Jones, Ph.D.; Austrera Reinis, Ph.D.

**Lecturers:** David E. Embree, M.A.; Lora J. Hobbs, M.A.; Michael Mitchell, M.A.; Micki A. Pulleyking, Ph.D.

**Emeritus Professors:** Stanley M. Burgess, Ph.D.; Charles W. Hedrick, Ph.D.; Karl W. Luckert, Ph.D.; J. Ramsey Michaels, Th.D.

### General Education Courses

REL 101, 102, or 131 may be used to meet the Humanities Perspective of the Culture and Society Area of Inquiry; REL 100 or 210 may be used to meet the Humanities Perspective of the Self-Understanding Area of Inquiry. Students majoring in Religious Studies may not use REL 100, 101, 102, 131, or 210 toward General Education requirements.

## Major

### Religious Studies (Non-Comprehensive)

#### Bachelor of Arts

A. General Education (see General Education section of catalog)

B. Major Requirements

1. REL 100(3), 101(3), 102(3), 131(3), 210(3), 580(3)
  2. Complete 15 hours from the following four areas, distributed so that there will be at least six hours in one area and three hours in each of the other three areas. Courses must be chosen to include at least one 500-level course and another course at the 300-level or above:
    - a. History of Religions: REL 315(3), 350(3), 355(3), 360(3), 540(3)
    - b. Biblical Studies: REL 312(3), 320(3), 321(3), 362(3), 510(3), 520(3), 570(3), 571(3)
    - c. History of Judaism and Christianity: REL 103(1), 330(3), 340(3), 550(1-3)
    - d. Religion, Self, and Society: REL 200(1), 332(3), 344(3), 345(3), 365(3), 370(3), 530(3); SOC 390(3) or PSY 533(3)
- Variable content courses (REL 197, 397, 399) may be counted where appropriate with the approval of the advisor and department head.

C. Minor Required

D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)

E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minors

### Religious Studies

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Science in Education (Non-Certifiable)

#### Bachelor of Social Work

A. REL 100(3); 101(3) or 102(3); 210(3)

B. Plus nine hours of Religious Studies electives to include at least six hours of courses at the 300-level or above to total 18 hours.

## Graduate Program

The Master of Arts degree offers a major in Religious Studies. See the Graduate Catalog for details.

## Religion Courses

**REL 100 Introduction to Religion.** 3(3-0) F,S.

Investigates what religion is and does, compares religious ideas and practices, and explores how religion influences the relationship between individual and community.

**REL 101 The Literature and World of the Old Testament.** 3(3-0) F,S.

Literature of the Old Testament including the historical backgrounds.

**REL 102 The Literature and World of the New Testament.** 3(3-0) F,S.

Literature of the New Testament including the historical backgrounds.

**REL 103 History of the English Bible.** 1(1-0) F,S.

The ancient manuscripts of the Bible; early versions; the English Bible; evaluation of recent translations.

**REL 131 Religion in America.** 3(3-0) F,S.

Recounts the development of American religious life, describes the variety of religious denominations, and traces the influence of religion on public and private life.

**REL 197 (199) Topics in Religious Studies.** 1-3, D.

Topics of general interest in the area of Religious Studies. Examples: Fundamentalism, Muslim Spain, Heresy and Holiness, Hell and the Devil, the Shroud of Turin. May be repeated, as topics change, to a maximum of 6 hours. Variable Content Course.

**REL 200 Religion in the News.** 1(1-0) F,S.

An examination of current religious issues as they are portrayed in the media and elsewhere, their advocates and opponents.

**REL 210 Paths of World Religions.** 3(3-0) F,S.

Religious movements worldwide, how they affected and still affect individual and cultural identities.

**REL 312 The Hebrew Prophets.** 3(3-0) D.

Prerequisite: REL 101 or permission. Prophets, their influence on life in Israel, the literature they produced.

**REL 315 American Indian Religions.** 3(3-0) F.

Tribal religions in America, with emphasis on the Greater Southwest.

**REL 319 The Bible and Film.** 3(3-0) D.

This movie-viewing course enables students to compare and to contrast films reflecting on biblical stories and themes. Films are viewed and grouped according to biblical stories, books, and themes and change each semester.

**REL 320 Jesus of Nazareth.** 3(3-0) F.

Prerequisite: REL 102 or permission. Jesus as presented in the Gospels.

**REL 321 Paul.** 3(3-0) S.

Prerequisite: REL 102 or permission. Role of Paul and his writings in the formation of Christianity.

**REL 323 Apocalypses.** 3(3-0) D.

A historical and socio-rhetorical analysis of ancient Jewish and Christian apocalyptic movements and literature with some attention to modern examples. Canonical texts such as Daniel and Revelation will be examined in the context of numerous extra-canonical Jewish and Christian apocalypses.

**REL 330 Judaism.** 3(3-0) F.

Prerequisite: 30 hours or permission. A survey of the Jewish people, their history and religion; the Holocaust; the State of Israel; modern Jewish movements.

**REL 332 Modern Religious Thought.** 3(3-0) D.

Religious thought as it develops from the Enlightenment to the present. Representative writers include: Schleiermacher, Barth, Kierkegaard, Buber, Tillich, H. Richard Niebuhr, Reinhold Niebuhr, Hans Kung.

**REL 340 Christianity.** 3(3-0) F,S.

The development of Christianity into a world religion: persons, events, ideas from the Second Century to the present.

**REL 344 (244) New American Religions.** 3(3-0) S.

Prerequisite: REL 100 or 131 or permission. New American Religions are examined to understand the direction religion has moved since 1960. The history, belief systems, and ritual of selected new religions including cults will be presented and then related to mainline American religions.

**REL 345 The African American Religious Experience.** 3(3-0) F.

Prerequisite: 30 hours or REL 131 or permission. Explores the establishment and maintenance of African American religious institutions, particularly the Black Churches. Also examines various roles in their future development.

**REL 350 Islam.** 3(3-0) S.

Origin, expansion, and continuity of Islam. Pre-Islamic origin, influences; Muhammad; Qur'an and Tradition (hadith); ritual and law; community and worldview; prayer and mysticism; denominations and sects within Islam.

**REL 355 Buddhism.** 3(3-0) D.

Prerequisite: 3 hours in Religious Studies or permission. A broad survey of the diverse patterns and expressions of Buddhist life throughout history. Studies will examine the beliefs, practices, and values that have existed among adherents of Theravada, Mahayana, and Vajrayana Buddhism. Course materials will be drawn from Asian and Western cultures.

**REL 360 Hinduism.** 3(3-0) D.

Prerequisite: 3 hours in Religious Studies or permission. An historical and thematic survey of the religions of India from the Vedic period to the present day.

**REL 362 Jesus and the Parable Tradition.** 3(3-0) D.

A survey of extant parables in Greek, Jewish, Gnostic, Synoptic and Patristic traditions, and an examination of the history of methods in the interpretation of the Parables of Jesus. In the light of this study the student will read and interpret selected parables of Jesus.

**REL 365 The Life and Thought of Martin Luther King, Jr.** 3(3-0) S.

Prerequisite: 6 hours of Religious Studies or permission. Studies the cultural roots, intellectual odyssey, social thought and action of Martin Luther King, Jr. Investigates his role in the Civil Rights Movement and compares him with other prominent leaders of this century.

**REL 370 Women and Religion.** 3(3-0) F.

A survey of feminist religious writers, the treatment and interpretation of women's roles in Judaeo-Christian literature, and the impact of the Women's Movement on religious institutions.

**REL 385 Religious Studies Service Learning.** 1 F,S.

Prerequisite: 30 hours, concurrent registration in a Religious Studies course designated as a service learning offering. This course is designed to provide a learning environment for research and reflection on the meaning of public and community service. It is intended to strengthen human communities by modeling an ethos of service and integrating public and community service into the Religious Studies curriculum. May be repeated but no more than two hours of service learning credit may count toward graduation.

**REL 397 (390) Religious Studies Topics.** 1-3, D.

Prerequisite: 3 hours in Religious Studies or permission. Selected topics of general interest in Religious Studies. Examples: Hinduism, Gnosticism and the Early Church, The Didache and Pastoral Epistles, Taoism, Shinto, Ancient Near Eastern Law and the Old Testament. May be repeated as topics change to a maximum of 9 hours. Variable Content Course.

**REL 399 Independent Study.** 1-3, F,S.

Prerequisite: 9 hours in Religious Studies and permission. Independent study relating Religious Studies to student's major or special interest. May be repeated to a total of 6 hours.

**REL 510 Topics in Old Testament Studies.** 3(3-0) D.

Prerequisite: REL 101, 50 hours, or permission. Advanced introduction and/or exegesis of primary documents from the Old Testament period, canonical and non-canonical, usually in the original language. Examples: Genesis, Jeremiah, The Hittites and the Old Testament, Daily Life in Old Testament Times. May be repeated, as topics change, to a maximum of 9 hours. Variable Content Course.

**REL 520 Topics in New Testament Studies.** 3(3-0) D.

Prerequisite: REL 102, 50 hours, or permission. Advanced introduction and/or exegesis of primary documents from the New Testament period, canonical and non-canonical, usually in the original language. Examples: Johannine literature, Revelation and Apocalyptic literature, Luke and Acts, Romans. May be repeated, as topics change, to a maximum of 9 hours. Variable Content Course.

**REL 530 Topics in Religion, Self, and Society.** 3(3-0) D.

Prerequisite: 50 hours including REL 100 and REL 131, or permission (REL 210 may be substituted for either REL 100 or REL 131). Explores advanced issues in the study of religion conceived as a component of cultural life. Examples: religion and politics, social theories of religion, social functions of myth and ritual, religion and popular culture. May be repeated, as topics change, to a maximum of 9 hours. Variable Content Course.

**REL 540 Topics in the History of Religions.** 3(3-0) D.

Prerequisite: 50 hours including REL 100 and 210, or permission. Events, movements, ideas, and persons in different religions will be studied in relation to texts and other cultural data. Examples: mysticism, ceremonialism, prayer, worship, right to life, death. May be repeated, as topics change, to a maximum of 9 hours. Variable Content Course.

**REL 550 Topics in the History of Judaism and Christianity.** 1-3, D.

Prerequisite: 50 hours and either REL 330 or 340, or permission. Selected topics of advanced content in Christianity and Judaism. Examples: Women in Judaism and Christianity; Jewish Middle Ages, Jewish Christian Dialogue; Holocaust; Eastern Christianity; Vatican II, American Evangelicalism. May be repeated up to 9 hours as topics change. Variable Content Course.

**REL 570 Archaeology and the Old Testament.** 3(3-0) D.

Prerequisite: REL 101, 50 hours, or permission. Archaeological discoveries in their relation to the literary, cultural, and religious background of the Old Testament. Methods and objectives of archaeological research, including a brief history of Near Eastern archaeology.

**REL 571 Archaeology and the New Testament.** 3(3-0) D.

Prerequisite: REL 102, 50 hours, or permission. Archaeological discoveries in their relation to the literary, cultural, and religious background of the New Testament. Includes methods and objectives of archaeological research.

**REL 580 Seminar in Religious Studies.** 3(3-0) F.

Prerequisite: 60 hours and permission. Analysis of various topics requiring the expertise of at least two members of the Religious Studies faculty. Examples: Perfection; Kingship and the Gods; Jerusalem: The Holy City; Judaeo/Christian Beginnings; End of the World. May be repeated, as topics change, to a maximum of 6 hours. Variable Content Course.

*The following courses are open to graduate students.***REL 610 Basic Issues: History of Religions.** 3(3-0) D.

Prerequisite: REL 210 or its equivalent. A research oriented survey of the history of the discipline, methodology, contemporary problems and trends, in relation to the development of the general study of religions and of anthropological theory.

**REL 611 Seminar: History of Religions.** 3(3-0) D.

Prerequisite: REL 610 or permission. Survey, analysis of, and directed research on special topics, in the phenomenology of religions or the historical study of religions other than Judaism, Christianity, and Islam. May be repeated once if topic is different.

**REL 630 Basic Issues in Biblical Studies.** 3(3-0) D.

A survey of the history of biblical research in its broadest sense, including the Hebrew scriptures, or Old Testament, the Jewish apocrypha and pseudepigraphic writings, the Greek New Testament, the early Christian fathers and the New Testament Apocrypha. The course will address such matters as Jewish and Patristic exegesis, the development of textual, literary, and form and redaction criticism, the emergence of biblical archaeology as a distinct discipline, the use of social description as a research tool, and biblical hermeneutics as a contemporary philosophical and theological issue.

**REL 631 Seminar: Biblical Studies.** 3(3-0) D.

The seminar in biblical studies will center on a specific topic in either the Old or the New Testament, or one common to both. Assigned seminar papers will trace the background of the subject in the ancient Near East or in the Hellenistic world, and will discuss particular expressions of it in various biblical, apocryphal, and early Jewish or Christian writers. Possible topics to be dealt with include law, kingship and the kingdom of God, justice and mercy, repentance, messianism and messiahs, resurrection, and vision and prophecy, as well as the investigation of literary genres such as parable, poetry, or historical narrative. May be repeated once if topic is different.

**REL 650 Basic Issues in the History of Judaism and Christianity.** 3(3-0) D.

A critical survey of historiographies, evaluation of principles and periodizations, their underlying assumptions and results.

**REL 651 Seminar in the History of Judaism and Christianity.** 3(3-0) D.

Detailed study of selected persons, authors, movements, and eras in the history of Judaism and Christianity. May be repeated once if topic is different.

**REL 670 Basic Issues: Religion, Self, and Society.** 3(3-0) D.

Prerequisite: SOC 390 or 690 or equivalent. A critical survey of the relationship between religion and the social environment in which it exists.

**REL 671 Seminar: Religion, Self, and Society.** 3(3-0) D.

Prerequisite: REL 670 or permission. A seminar applying various perspectives to individual religious practice and religious institutions in selected Western and non-Western societies. May be repeated once if topic is different.

**REL 696 Readings in Religious Studies.** 1-3 D.

Prerequisite: recommendation of the general graduate advisor. Arranged program of readings for the individual student directed by a professor of the graduate faculty. May be repeated to a maximum of 6 credits when topic varies.

**REL 699 Thesis.** 1-6, D.

The student will prepare an in-depth thesis on a clearly-defined topic within his or her area of specialization. May be repeated to a maximum of 6 hours.

## Department of Sociology, Anthropology and Criminology

451 Strong Hall, Phone: 836-5640, FAX: 836-6416

Email: dsac@missouristate.edu, Department Web Site: <http://socantcrim.missouristate.edu/>

**Department Head:** Professor Karl R. Kunkel, Ph.D.

**Professors:** Ravindra G. Amonker, Ph.D.; Gary L. Brock, Ph.D.; Michael K. Carlie, Ph.D.; Shahin Gerami, Ph.D.; John B. Harms, Ph.D.; Tim D. Knapp, Ph.D.; LiYing Li, Ph.D.; Jeffrey E. Nash, Ph.D.; Marvin Prosono, Ph.D.; Lorene H. Stone, Ph.D.; William A. Wedenoja, Ph.D.; Martha F. Wilkerson, Ph.D.; Juris Zarins, Ph.D.

**Associate Professors:** Gary D. Brinker, Ph.D.; Margaret L. Buckner, Ph.D.; Suzanne E. Walker, Ph.D.

**Assistant Professor:** William C. Meadows, Ph.D.

**Lecturers:** Diane M. Leamy, M.S.; Dina C. Williams, M.S.; Ivy V. Yarkow-Brown, M.S.

**Emeritus Professors:** Doris W. Ewing, Ph.D.; Donald D. Landon, Ph.D.; William E. Larkin, Ph.D.; Melody G. Lehnerer, Ph.D.; Burton L. Purrington, Ph.D.; Lloyd R. Young, Ph.D.

### Credit By Examination

Credit for ANT 100 is available for International Baccalaureate subject examination. See "Academic Policies/Credit By Exam" section of this catalog for information.

### General Education Courses

ANT 100 or SOC 150 may be used to meet the Social Sciences Perspective of the Culture and Society Area of Inquiry, and ANT 125 may be used to meet the Social/Behavioral Perspective of the Self-Understanding Area of Inquiry of the General Education requirements.

## Majors

### Anthropology (Non-Comprehensive)

#### Bachelor of Arts

- A. General Education (see "General Education" section of catalog)
- B. Major Requirements (30 hours)
  1. Required Core (15 hours): ANT 226(3), 227(3), 250(3), 280(3), 595(3)
  2. Choose one course from each of the following categories (15 hours):
    - a. Archaeology: ANT 340(3), 350(3), 360(3), 397(3)\*, 451(3-6), 598(3)\*
    - b. Biological Anthropology: ANT 365(3), 370(3), 375(3), 397(3)\*, 598(3)\*
    - c. Cultural Anthropology: ANT 301(3), 302(3), 310(3), 320(3), 397(3)\*, 598(3)\*
    - d. Linguistic Anthropology: ANT 380(3), 598(3)\*; ENG 494(3), 592(3)
    - e. Peoples and Cultures: ANT 325(3), 330(3), 331(3), 335(3), 425(3)
- \*When applicable.
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Anthropology (Non-Comprehensive)

#### Bachelor of Science

- A. General Education (see "General Education" section of catalog)
- B. Major Requirements (39 hours)
  1. Required Core(18 hours): ANT 226(3), 227(3), 250(3), 280(3), 595(3); SOC 302 or equivalent (3)
  2. Choose one course from each of the following categories (15 hours):
    - a. Archaeology: ANT 340(3), 350(3), 360(3), 397(3)\*, 451(3-6), 540(3), 598(3)\*
    - b. Biological Anthropology: ANT 365(3), 370(3), 375(3), 397(3)\*, 598(3)\*
    - c. Cultural Anthropology: ANT 301(3), 302(3), 310(3), 320(3), 397(3)\*, 598(3)\*

- d. Linguistic Anthropology: ANT 380(3), 598(3)\*; ENG 494(3), 592(3)
- e. Peoples and Cultures: ANT 325(3), 330(3), 331(3), 335(3), 425(3)

\*When applicable.

3. Complete 6 hours of upper-division electives in ANT
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Criminology (Comprehensive)

#### Bachelor of Arts

- A. General Education Requirements (see "General Education" section of catalog).
- B. Major Requirements (46 hours)
  1. Required Core (19 hours): SOC 150(3), 301(3), CRM 210(3), 320(3), 490(3), 491(1), 498(3)
  2. Complete 18 additional hours in CRM courses below the 500 level
  3. Supportive Sociology Electives (9 hours): choose from SOC 152(3), 290(3), 302(3), 309(3), 310(3), 315(3), 316(3), 325(3), 326(3), 336(3), 341(3), 351(3), 380(3), 420(3), 485(3)
  4. A minimum GPA of 2.50 in the courses counted toward the major.
- C. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- D. General Baccalaureate Degree Requirements (see Academic Programs and Requirements" section of catalog)

Further information about the program also can be found on the Internet (<http://criminology.missouristate.edu>).

### Criminology (Comprehensive)

#### Bachelor of Science

- A. General Education Requirements (see "General Education" section of catalog).
  - B. Major Requirements (46 hours)
    1. Required Core (19 hours): SOC 150(3), 301(3), CRM 210(3), 320(3), 490(3), 491(1), 498(3)
    2. Complete 18 additional hours in CRM courses below the 500 level
    3. Supportive Sociology Electives (9 hours): choose from SOC 152(3), 290(3), 302(3), 309(3), 310(3), 315(3), 316(3), 325(3), 326(3), 336(3), 341(3), 351(3), 380(3), 420(3), 485(3)
    4. A minimum GPA of 2.50 in the courses counted toward the major.
  - C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- Further information about the program also can be found on the Internet (<http://criminology.missouristate.edu>).

**Sociology (Non-Comprehensive)****Bachelor of Arts**

NOTE: A grade of "C" or better in SOC 150 is required for admission to the Sociology major.

- A. General Education (see General Education section of catalog)
- B. Major Requirements
  - 1. SOC 150(3), 301(3), 302(3), 325(3), 498(3)
  - 2. Complete 21 additional hours, 9 of which may come from ANT or CRM courses
  - 3. A minimum GPA of 2.50 in the courses counted toward the major
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

**Sociology (Non-Comprehensive)****Bachelor of Science**

NOTE: A grade of "C" or better in SOC 150 is required for admission to the Sociology major.

- A. General Education (see General Education section of catalog)
- B. Major Requirements
  - 1. SOC 150(3), 301(3), 302(3), 325(3), 498(3)
  - 2. Complete 21 additional hours, 9 of which may come from ANT or CRM courses
  - 3. A minimum GPA of 2.50 in the courses counted toward the major
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

**Minors****Anthropology****Bachelor of Arts****Bachelor of Science****Bachelor of Social Work**

- A. Complete 3 of the following 4 courses: ANT 226(3), 227(3), 250(3), 280(3)
- B. Complete 9 additional hours of ANT electives, at least 6 of which are numbered 300 or above

**Applied Social Research****Bachelor of Science****Bachelor of Social Work**

- A. SOC 301(3), 302(3), 325(3); SOC 470(3) or 499(3)
- B. Complete electives from the following to total 21 hours: SOC 505(3); PLS 576(3); PSY 529(3); or courses approved by the advisor which ties the major and minor fields of study together.

**Criminology****Bachelor of Arts****Bachelor of Science****Bachelor of Science in Education****(Non-Certifiable)****Bachelor of Social Work**

- A. CRM 210(3), 320(3)
- B. One of the following: CRM 350(3), 360(3), 370(3)
- C. Complete 12 additional hours in CRM courses below the 500 level. CRM 350, 360, and 370 will count toward this 12 hour requirement only if not taken to satisfy item B above.

Further information about the program can be found on the Internet (<http://criminology.missouristate.edu>) or by contacting the Department Head.

**Sociology****Bachelor of Arts****Bachelor of Science****Bachelor of Science in Education  
(Non-Certifiable)****Bachelor of Social Work**

- A. SOC 150(3), 301(3), 325(3)
- B. Complete 9 additional hours in Sociology

**Graduate Program**

The department offers courses toward an option in Criminal Justice within the Master of Science in Administrative Studies degree. See the Graduate Catalog for details.

**Anthropology Courses**

**ANT 100 World Cultures.** 3(3-0) F,S.

An exploration of cultural differences throughout the world, with emphasis on nonwestern societies, from the perspective of cultural anthropology.

**ANT 125 The Human Story.** 3(3-0) F,S.

An introduction to the study of human origins and evolution over the past five million years that focuses on our biology, language, society, and culture and discusses those characteristics we share with other animals, those that make us uniquely human, and the varied ways in which human nature and culture are expressed by individuals.

**ANT 226 Cultural Anthropology.** 3(3-0) S.

The comparative study of human society and culture, focusing on theories of culture and cultural institutions and ethnographic and cross-cultural methods of research.

**ANT 227 Biological Anthropology.** 3(3-0) S.

An examination of biological aspects of humanity from comparative and evolutionary perspectives. Topics include evolutionary theory, the origin and evolution of nonhuman primates and humans, primate behavior, biological variation among human populations, and anatomical and physiological influences on behavior.

**ANT 250 World Prehistory.** 3(3-0) F.

A survey of cultural developments around the world, from the Stone Age through the appearance of early civilizations, as revealed by archaeology, with an emphasis on major changes, general trends, and processes of change.

**ANT 280 Linguistic Anthropology.** 3(3-0) F.

This course is an introduction to the field of linguistic anthropology, with special emphasis on language as a basic component of human culture. Subjects include the humanness of language, the study of linguistic structure, description and analysis of languages, origins of human speech, the history of languages and writing, the use of language in social relations, and the relationship among language, thought, and culture.

**ANT 301 Anthropology of Religion.** 3(3-0) D.

Prerequisite: ANT 226 or REL 210. Anthropological theory and cross-cultural comparison of religious belief and behavior, such as magic, sorcery, witchcraft, mythology, ritual, totemism, shamanism, cults and movements.

**ANT 302 Psychological Anthropology.** 3(3-0) D.

Prerequisite: ANT 226 or permission of instructor. Cross-cultural and evolutionary perspectives on socialization, the self, personality, gender, normality, deviance, mental disorders, cognition, and emotion.

**ANT 309 Service Learning in Anthropology.** 1, F,S.

Prerequisite: 30 hours and concurrent registration in an anthropology course designated as a service learning offering. An integrative learning experience which addresses the practice of citizenship and promotes an awareness of and participation in public affairs by incorporating community service with classroom instruction. Includes 40 hours on-task service to a community organization, agency or public sector provider. The community service placement agency and service assignment will vary, dependent on the disciplinary course topic and learning objectives.

May be repeated but no more than 2 hours of service learning may count toward graduation.

**ANT 310 Ethnographic Field Methods.** 3(3-0) D.

Prerequisite: ANT 226 or permission of instructor. Ethnographic methods and techniques in the study of culture with emphasis on participant-observation and interviewing in cross-cultural settings.

**ANT 320 Ethnography.** 3(3-0) D.

Prerequisite: ANT 100 or ANT 226. In this course we will read, critique, and compare selected ethnographic accounts of societies around the world and explore ways in which anthropologists have written about and interpreted cultures.

**ANT 325 North American Indian Cultures.** 3(3-0) D.

Prerequisite: ANT 100 or ANT 226 or permission of instructor. A survey and comparison of Native American societies and cultures in North America (north of Mexico), including their ecology, subsistence, technology, social organization, politics, and religion.

**ANT 330 Peoples and Cultures.** 1-3 D.

Anthropological study of a cultural region of the world (such as the Caribbean, Latin America, or Southeastern Indians), including environment, subsistence, technology, economy, social and political organization, and religion. May be repeated when topic changes. Variable Content Course.

**ANT 331 Peoples and Cultures of the Caribbean.** 3(3-0) D.

An introduction to the peoples, societies, and cultures of the Caribbean region, which includes the islands of the West Indies and portions of Central and South America. We will study the development of the region from prehistoric times to the present and examine the effects of the Atlantic slave trade, the African diaspora, sugar plantations, and Spanish, British, French, Dutch, and American colonialism on the region today.

**ANT 335 Peoples and Cultures of the Middle East.** 3(3-0) D.

Prerequisite: 30 hours or permission of instructor. A survey presentation of key themes and problems to be found in the Middle East, ranging from the re-establishment of Israel to modernity and tradition in the greater Arab Near East. In addition, topics ranging from the individual to state formation will be discussed. Traditional society, customs, and historical patterns will be examined.

**ANT 340 Old World Archaeology.** 3(3-0) D.

Prerequisite: ANT 250 or permission of instructor. A detailed survey of prehistory in selected areas of Europe, Africa, the Middle East, the Far East, Australia and Oceania. Emphasis on the latest theoretical considerations and outstanding archaeological problems of each region.

**ANT 350 Archaeological Method and Theory.** 3(3-0) S.

Prerequisite: ANT 250 or permission of instructor. How material evidence of the past is preserved, recorded, and analyzed: history of archaeological research, concepts and methods for the study of prehistoric and historic cultures, public archaeology. Optional field and laboratory assignments.

**ANT 360 North American Archaeology.** 3(3-0) D.

Prerequisite: ANT 250 or permission of instructor. The prehistoric record of American Indian cultures is reconstructed from archaeological evidence and methodology. Topics include peopling of the New World, hunting and gathering societies, the development of agriculture, and the formation of political states.

**ANT 363 Survey of Forensic Anthropology.** 3(3-0) D.

A survey of the scope of forensic anthropology, which deals with identification and interpretation of human skeletal remains in medico-legal contexts. Included in this course are both theoretical and practical components. Topics to be discussed include the history and ethics of forensic anthropology, forensic investigation, influence of activity and disease on bone, and human rights applications. Practical aspects cover identification of bones and features of the human skeleton; techniques for determining age, sex, stature and race, and distinguishing human from nonhuman skeletal remains.

**ANT 365 Human Variation.** 3(3-0) D.

Prerequisite: ANT 227 or BIO 102 or BIO 121 or BMS 100 or BMS 105 or BMS 110. An examination of ways in which humans have adapted both genetically and physiologically to a wide variety of environments and how these adaptations have produced the biological variation seen in

contemporary human populations. Major topics will include historical and current approaches to classifying human groups, human growth and development, adaptation and acclimatization to specialized environments, genetic disease, and tracing lineages through DNA analysis. It will also explore recent studies relating human biology to social constructs such as gender, race, ethnicity, and intelligence.

**ANT 370 The Living Primates.** 3(3-0) D.

Prerequisite: ANT 227 or BIO 122 or PSY 336 or permission of instructor. An introduction to the human species' closest relatives, the nonhuman primates (prosimians, monkeys, and apes); their taxonomy, distribution, morphology, ecology, evolution, behavior, and conservation.

**ANT 375 Human Evolution.** 3(3-0) D.

Prerequisite: ANT 227 or BIO 122 or permission of instructor. An exploration into the evolution of the human species, through examination of fossil and molecular evidence.

**ANT 380 Language and Culture.** 3(3-0) S.

Prerequisite: ANT 280 or ENG 296. Advanced study in linguistic anthropology on topics such as ethnographies of speaking, ethnolinguistics, language change and historical linguistics. Variable Content Course. May be repeated when topic changes.

**ANT 397 (300) Special Topics.** 1-3, D.

Selected topics such as primitive technology, cultural ecology and behavioral evolution. May be repeated to a total of 9 hours when topic changes. Variable Content Course.

**ANT 425 North American Indians Today.** 3(3-0) D.

Prerequisite: ANT 325 or permission of instructor. This course will survey major developments in North American Indian society and culture in the 20<sup>th</sup> and 21<sup>st</sup> centuries, focusing on cultural, social, economic, political, environmental, and legal issues that affect Native Americans today.

**ANT 451 Field Archaeology.** 3-6 D.

Prerequisite: ANT 250 or ANT 350; and permission. Field experience in the techniques, methods and theories of reconnaissance and excavation of archaeological sites. May be repeated to a total of 9 hours. supplemental course fee may apply.

**ANT 453 Archaeological Laboratory Methods.** 1-3 Su.

Prerequisite: ANT 250 or ANT 350; and permission. Techniques of preparation, preservation, restoration, interpretation, and cataloging of archaeological material recovered in the field. May be repeated to a total of 9 hours.

**ANT 454 Archaeological Research and Report Preparation.** 1-3, D.

Prerequisite: ANT 451; and permission. The planning, funding, and logistics of an archaeological research project, including data analysis and storage, documents search, recording and report writing. May be repeated to a total of 9 hours.

**ANT 490 Field Experience in Anthropology.** 1-6, D.

Prerequisite: permission of department head. Supervised group study and/or research in an off campus setting. A fee may be charged to cover travel expenses. May be repeated when subject changes.

**ANT 499 Internship in Anthropology.** 1-6, D.

Prerequisite: 18 hours of ANT and permission. This independent study course provides an opportunity to earn academic credit for supervised work experience related to anthropology with an approved business, industry, organization, or government agency. May be repeated to a total of six hours.

**ANT 540 Topics and Problems in Near Eastern Archaeology.** 3(3-0) D.

Prerequisite: ANT 250 or ANT 340 or graduate status and permission of instructor. A detailed analysis of major themes which define human behavior in the Near East; the origins of anatomically modern man, the agricultural and pastoral revolutions, the origins of civilization, the introduction of metallurgy, and problems bearing on selected ethnic origins.

**ANT 595 (495) History of Anthropological Theory.** 3(3-0) S.

Prerequisite: ANT 226 and 80 hours or permission of instructor. Senior culminating course for ANT majors. This course traces the development

of anthropology and anthropological theory, with emphasis on the major theorists and schools of thought in the twentieth century.

**ANT 596 (593) Directed Readings in Anthropology.** 1-3, F,S.  
Prerequisite: 6 hours of anthropology and permission of instructor. Readings designed to supplement material introduced in previous anthropology courses. Includes a wide selection of literature in the field. May be repeated to a total of 6 hours.

**ANT 598 Seminar in Anthropology.** 3(3-0) D.  
Prerequisite: 60 hours and permission of instructor. A detailed investigation and analysis of a specialized or advanced topic of interest to anthropology (e.g., Upper Paleolithic art, the evolution of human behavior, ethnographies of religion). May be repeated when topic changes. Variable Content Course.

**ANT 599 (594) Directed Research in Anthropology.** 1-3, F,S.  
Prerequisite: 9 hours in Anthropology and permission of instructor. Individual or group research involving supervised collection and analysis of cultural data. May be repeated to a total of 9 hours.

## Criminology Courses

**CRM 210 (CAS) An Introduction to the American Criminal Justice System.** 3(3-0) F,S.

An introduction to the American criminal justice system from a sociological point of view.

**CRM 300 (CAS) Service Learning in Crime and Society.** 1 D.  
Prerequisite: 30 hours and concurrent registration in a Criminology course designated as service learning offering. An integrative learning experience which addresses the practice of citizenship and promotes an awareness of and participation in public affairs by incorporating community service with classroom instruction. Includes 40 hours on-task service to a community organization, agency or public service provider. The community service placement agency and service assignment will vary, dependent on the disciplinary course topic and learning objectives. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**CRM 301 (CAS) Crime and the Media.** 1(1-0) D.  
A sociologically-based exploration of the relationship between various forms of mass media as they impact public attitudes and social policies regarding crime and the justice system.

**CRM 302 (CAS) Reforming America's Prisons.** 1(1-0) D.  
This course explores the nature of confinement used by the American criminal justice system and includes a study of prisons and jails. Both the humanitarian and rehabilitative conditions of these facilities are reviewed in a critical context with attention paid to ways in which existing problems may be corrected. Prison reform is studied from a system-wide perspective recognizing the role of legislatures, courts, and the public in bringing about effective reform.

**CRM 303 (CAS) Capital Punishment.** 1(1-0) D.  
Students explore the history of the death penalty as well as its current use in the United States. Methods of execution and their impact upon executioners, death penalty jurors, and the families of both the executed and their victim's family members are analyzed.

**CRM 304 (CAS) Criminal Justice, You, and the WWW.** 1(1-0) D.  
Students are introduced to the WWW and various ways in which to navigate the Internet in pursuit of crime- and justice-related databases, substantive content sites, and information related to graduate study and career preparation.

**CRM 305 Serial Murders.** 1(1-0) D.  
This course provides a sociological understanding of the crime of serial murder in the United States, from its historical development to its current media craze. It examines the nature and extent of serial murder in the U.S., focusing on the characteristics and motivations of the female, the male, and the team serial murders, as well as their victims.

**CRM 320 (CAS) The Causes of Crime and Delinquency.** 3(3-0) F,S.

Prerequisite: CRM 210 or SOC 150, or permission of the instructor. Examines the nature and dimensions of juvenile delinquency and adult criminality. Historical and contemporary theories of crime and delinquency are reviewed.

**CRM 330 (CAS) Delinquency and the Juvenile Justice System.** 3(3-0) S.

Prerequisite: CRM 210 or permission of instructor. This course introduces students to the topic of juvenile delinquency. It reviews the history, extent, and significance of delinquency and traces the emergence and effectiveness of the juvenile justice system as a societal response to juvenile offenders.

**CRM 350 (CAS) The Police in American Society.** 3(3-0) S.  
Prerequisite: CRM 210 or permission of instructor. A sociological examination of the structure, role, and function of police in American Society.

**CRM 360 (CAS) Criminal Courts in Society.** 3(3-0) F.  
Prerequisite: CRM 210 or permission of instructor. Principles, processes, and structures found in juvenile and adult courts. Sociological studies of courtroom personnel as well as contemporary criminological issues involving the courts are also examined.

**CRM 370 (CAS) Institutional and Community-Based Corrections.** 3(3-0) F,S.

Prerequisite: CRM 210 or permission of instructor. A course designed to critically examine the various social control responses to delinquent and criminal behavior. Includes the history, philosophies, and practices of American corrections and an evaluation of the advantages and disadvantages of each societal/correctional response.

**CRM 396 (CAS) Directed Readings in Criminology.** 1-3, D.  
Prerequisite: permission of the instructor. Readings designed to introduce students to new material or to supplement material introduced in previous departmental courses. May be repeated to total of 6 hours if topic changes.

**CRM 397 (CAS) Special Topics in Criminology.** 1-3, D.  
A variable topic course offering an overview of one or more issues related to criminology. May be repeated to a total of 6 hours when topic changes.

**CRM 410 (CAS) Crime, Justice, and Gender.** 3(3-0) F.  
Prerequisite: CRM 210 and CRM 320, or permission of instructor. A sociological examination of the impact of gender on crime and justice issues. The course format relates the impact of gender to the differential treatment of women and men as offenders, victims, and professionals in the system.

**CRM 415 (CAS) Crime, Class, Race, and Justice.** 3(3-0) S.  
Prerequisite: CRM 210 and CRM 320, or permission of instructor. A sociological examination of race and class issues in crime, victimization, the origins of law, and the operation of the American criminal justice system. Implications for social policy are explored.

**CRM 420 (CAS) Comparative Criminal Justice Systems.** 3(3-0) D.  
Prerequisite: CRM 210 and CRM 320, or permission of instructor. A comparative and historical study of the origins of law, crime rates, and the structure and operation of the criminal justice system in the United States as compared to other western and eastern nations. Included is the study of criminal and juvenile law, police, courts and the corrections system.

**CRM 430 (CAS) Victimless Crime.** 3(3-0) F,S.  
Prerequisite: CRM 210 and CRM 320, or permission of instructor. A sociological examination of attempts to legally control private behavior covering both historical and contemporary examples such as prostitution, drug use, homosexuality, and abortion.

**CRM 480 (CAS) The Gang Phenomenon.** 3(3-0) F.  
Prerequisite: CRM 210 and CRM 320, or permission of instructor. A sociologically based analysis of street gangs in the United States including their history, why they form, and the societal response to gangs.

**CRM 490 (CAS) Internship in Criminology.** 3-6 F,S.  
Prerequisite: Criminology major, completion of 24 hours in the major program including at least 15 hours in CRM courses, 2.00 GPA in major courses, must be concurrently enrolled in CRM 491, and permission of instructor. Faculty supervised experience in an agency related to issues of crime and justice. Students are expected to work 50 hours in the agency for each credit hour. Students may enroll in up to six hours; however, only three hours may be counted toward the CRM major.

Students must submit applications for CRM 490 no later than April 15 for subsequent summer (when offered) and fall enrollment, and November 1 for subsequent spring enrollment.

**CRM 491 (CAS) Internship Symposium.** 1(0-2) F,S.

Prerequisite: concurrent enrollment in CRM 490 and permission of instructor. Students meet to relate experiences in their internship (CRM 490) to academic knowledge and various aspects of organizational theory.

**CRM 497 (CAS) Special Issues in Criminology.** 1-3, D.

Prerequisite: permission of the instructor. A variable topic course offering an in-depth analysis of one or more issues related to criminology. May be repeated to a total of 6 hours when topic changes.

**CRM 498 (CAS) Senior Seminar in Criminology.** 3(3-0) F,S.

Prerequisite: Criminology major, senior standing, and completion of 30 hours in the major program. Examination of contemporary issues involving crime and justice in society. The seminar integrates coursework taken for the Criminology major. Preparation for both academic and non-academic careers in criminology-related fields is covered.

**CRM 502 (CAS) Analyzing Crime Data.** 3(3-0) SO.

Prerequisite: CRM 320 and SOC 301, or the equivalent, or permission of instructor. Explores the meanings and uses of historical and contemporary crime data. Special attention is paid to extraction, preparation and analysis on the World Wide Web.

**CRM 520 (CAS) Crime Theory and Policy.** 3(3-0) FE.

Prerequisite: CRM 320 or equivalent, or permission of the instructor. The course surveys various classical and contemporary theories of lawbreaking from a community-level sociological perspective. The relationship of criminological theory to justice system policy is emphasized.

**CRM 597 (CAS) Special Topics and Issues in Criminal Justice.** 1-3, D.

Prerequisite: permission of the instructor. A variable topic course examining issues of crime, its causes, as well as social and political responses to crime by various institutions including government, media, law enforcement, the courts, and corrections. May be repeated for a total of 6 credit hours if the topic changes.

*The following courses are open only to graduate students.*

**CRM 610 (CAS) Justice Administration.** 3(3-0) D.

This course analyzes the criminal justice system in the United States emphasizing the role of criminal law, police, courts, and corrections as parts of the societal response to crime. Significant attention is given to contemporary issues facing each component of the system and implications for agency administration.

**CRM 650 (CAS) Law Enforcement and Community.** 3(3-0) FO.

Using a sociological perspective, this course addresses concerns and issues facing law enforcement agencies within a community context. Administrative implications of these subjects also will be addressed.

**CRM 670 (CAS) Correctional Theory and Practice.** 3(3-0) SE.

This course examines social control responses to lawbreakers including the exploration of classical and contemporary theories and philosophies that have guided American correctional policy—both institutional and community based. Management implications related to policy are addressed.

**CRM 699 (CAS) Thesis.** 1-6, D.

Independent research and study connected with preparation of a thesis. May be repeated to a maximum of 6 hours.

## Sociology Courses

**SOC 150 Introduction to Society.** 3(3-0) F,S.

The study of society including its structure and operation from the perspective of sociology. The course focuses on ways society is constructed by people and, in turn, on the ways society shapes people. This general education course supplies students with a community as well as global, multicultural understanding of society.

**SOC 152 Social Problems.** 3(3-0) F,S.

Sociological perspectives on contemporary social issues and problems in American society.

**SOC 284 Social Movements.** 3(3-0) S.

The study of collective attempts to implement social change in society. Specific groups studied will vary, but may include the civil rights, feminist, political, religious, environmental and health movements.

**SOC 290 Sociology of Gender Roles.** 3(3-0) F.

A study of gender roles, focusing on the effects of socialization, role stereotyping, and rapid social change on adult gender role identity, life choices and family patterns.

**SOC 297 (200) Special Topics.** 1-3, D.

Prerequisite: permission. Selected topics of contemporary interest in sociology, offered when resources and demand allow. May be repeated to a total of 6 hours when topic changes. Variable Content Course.

**SOC 300 Service Learning Curricular Component.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a sociology course designated as service learning offering. An integrative learning experience which addresses the practice of citizenship and promotes an awareness of and participation in public affairs by incorporating community service with classroom instruction. Includes 40 hours on-task service to a community organization, agency or public service provider. The community service placement agency and service assignment will vary, dependent on the disciplinary course topic and learning objectives. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**SOC 301 (201) Research Methodology.** 3(3-0) F,S.

Prerequisite: SOC 150. Methods of collecting and analyzing data including interviewing and observation techniques, scaling and sampling designs.

**SOC 302 Statistics for Social Research.** 3(3-0) F,S.

Prerequisite: 30 college hours and completion of math requirement. Introduction to statistics with special emphasis on those techniques most commonly used in social research. This course cannot be credited toward a degree if a student has taken any of the following: AGR 330, ECO 308, MTH 340, PSY 200, QBA 237, REC 331.

**SOC 306 Introduction to the Sociology of Education.** 3(3-0) D.

Structure and functions of the school in American society; impact of recent social and technological changes upon the education system.

**SOC 309 Work, Industry and Society.** 3(3-0) S.

The industrialization of society and its impact on formal and informal organization, management philosophies, worker attitudes and labor relations. Current trends affecting the work place are examined.

**SOC 310 Social Deviance.** 3(3-0) F,S.

An historical survey of the explanations of deviant behavior. Emphasis will focus on the structure of norms and rules, their diversity, and their role in identifying deviance.

**SOC 314 Rural Sociology.** 3(3-0) D.

An analysis of social organization, development, and change in rural cultures, lifestyles, and environments; includes comparisons of industrialized and developing countries.

**SOC 315 (414) The Family.** 3(3-0) D.

The family as a social institution; its adjustment to modern social conditions; personality adjustments in marriage.

**SOC 316 Urban Sociology.** 3(3-0) F.

The rise and development of urban settlements (cities), their ecology, problems, and an examination of urbanism as a way of life generated in cities.

**SOC 325 Introduction to Sociological Theory.** 3(3-0) F,S.

Prerequisite: SOC 150. A survey of the development of sociological theory with emphasis upon the social and historical influences shaping the thought of classical theorists.

**SOC 326 Feminist Theories of Social Order.** 3(3-0) S. (Identical with GST 326)

Prerequisite: SOC 150 or GST 170. This course offers an introductory survey of feminist theories within a sociological framework. We will read and discuss significant classical and contemporary feminist writings on how social life is organized, maintained or changed. The feminist literature has led to the emergence of diverse theoretical frameworks analyzing historical and contemporary, macro and micro, public and private, local and global issues and concerns. The feminist paradigm,



like many other paradigms, is inclusive of many disciplines. The sociological writings within this paradigm provide a wealth of materials on alternative views of social organization, order and conflict. Cannot receive credit for both GST 326 and SOC 326.

**SOC 336 Race and Ethnic Group Relations.** 3(3-0) S.

Selected racial and ethnic minorities, their relationships with each other and the larger society. Social policy affecting minority relations analyzed as well as trends and prospects for intergroup relationships in the U.S. and the world.

**SOC 341 Medical Sociology.** 3(3-0) S.

An analysis of the ecological, sociopsychological and cultural aspects of health and illness, both physical and mental, and of the social organization of health care services and of health professions.

**SOC 351 Sociology of Childhood.** 3(3-0) D.

Situational factors in the development of personality with special emphasis on the family, peer groups and the school.

**SOC 357 Sociology of Sport.** 3(3-0) D.

Investigation and analysis of the relationship between sport and society; the development and changing nature of sport as an institution; role of sport in modern society.

**SOC 360 (160) The Individual in Society.** 3(3-0) D.

This course explores how self understanding emerges in a social context and is inseparable from that context. It examines the symbolic basis of communication, traces the interdependency of self and other awareness, and probes the social organization of human experience.

**SOC 380 Sociology of Law.** 3(3-0) F.

The interaction of law and society from a sociological perspective with emphasis upon legal institutions as instruments of social control. The impact of social values on the development of the legal order and the reciprocal influence of the law on social behavior.

**SOC 390 (560) Religion in Society.** 3(3-0) S.

This course examines the relationship between religion and its social context. Students will explore the social nature of individual religious institutions. The interrelationship between religion and the problems created by modernity will be studied. Taught concurrently with SOC 690. Cannot receive credit for both SOC 390 and SOC 690.

**SOC 397 Special Topics.** 1-3, D.

Selected topics of contemporary interest in Sociology. May be repeated to a total of 6 hours when the topic changes. Variable Content Course.

**SOC 420 Social Inequality.** 3(3-0) S.

Prerequisite: SOC 150. An analysis of the structure, sources, and consequences of social inequality and the dimensions along which it may be observed.

**SOC 425 Advanced Sociological Theory.** 3(3-0) D.

Prerequisite: SOC 325 or permission of instructor. This course provides an in-depth analysis of a particular theorist, e.g. Karl Marx, Emile Durkheim, W.E.B. DuBois, Jane Addams; or theoretical orientation, e.g. symbolic interactionism, critical theory, dependency theory.

**SOC 470 Practicum in Applied Sociological Research.** 3(2-4) D.

Prerequisite: SOC 301 and SOC 302 and SOC 325, or permission. Group experience in designing and carrying out an applied community research project. Variable Content Course.

**SOC 485 Society and the Future.** 3(3-0) F.

A critical analysis of post-industrial societies. Specific attention will be given to changes in institutional spheres and what these trends may indicate for post-industrial societies like the United States.

**SOC 497 (400) Special Topics.** 1-3, D.

Prerequisite: 9 hours sociology or permission. Selected topics in substantive areas in sociology such as theory, methodology, social organization, social psychology, demography, criminology and family. Offered when resources and demand allow. May be repeated to a total of 6 hours when topic changes. Variable Content Course.

**SOC 498 (495) Senior Seminar.** 3(3-0) F,S.

Prerequisite: SOC 301, SOC 302, SOC 325. A cumulative and integrative seminar experience for the sociology major during which the student will prepare and submit a bachelors paper. This course is normally taken in the semester a student graduates.

**SOC 499 (489) Internship in Applied Sociology.** 1-6, D.

Prerequisite: 18 hours in Sociology with 2.50 GPA and permission. Supervised work experience in business, industry, governmental, institutional and/or agency settings where sociological skills are utilized. One credit hour for each 45 clock hours on the job. No more than 3 hours internship credit may be applied to the Sociology major.

**SOC 505 (405) Population Analysis.** 3(3-0) S.

Prerequisite: SOC 150 or permission of the instructor. Comparative analysis of population size, distribution, and composition; population processes of fertility, mortality and migration; impact of population change on society; issues of population policy.

**SOC 596 (591) Directed Readings in Sociology.** 1-3, D.

Prerequisite: 10 hours in sociology and permission. Readings designed to supplement material introduced in previous sociology courses. Includes a wide selection from literature in the field. May be repeated to a total of 9 hours, but no more than 6 hours may be applied to the sociology major.

**SOC 599 Sociological Research.** 1-3, F,S.

Prerequisite: SOC 150; and SOC 301 and SOC 302 and SOC 325, or permission. Independent and/or group work in research methodology, data manipulation and presentation in selected fields of sociology. May be repeated to total of 9 hours.

*The following courses are open only to graduate students.*

**SOC 600 Gender in Global Community.** 3(3-0) D.

Prerequisite: admission to Graduate College and SOC 150 or GST 170 or permission. This course will explore the effects of an integrated global community on gender; how global trends are gender-based in terms of labor market participation, resource allocation, family regulations, health care, crime, war and regional politics. We will discuss how events and policies in one part of the globe affect gender relations in another region. Cannot be taken for credit if GST 400 was taken for credit.

**SOC 606 Advanced Social Research Methodology.** 3(3-0) D.

Prerequisite: statistics or permission of instructor. Introduces research methodology in the context of understanding community social life. Covers surveys, ethnographic accounts, community indicators, comparative studies, and evaluation studies. Also instructs students in advanced skills of data analysis and presentation, report and grant writing.

**SOC 685 Community Change.** 3(3-0) D.

Prerequisite: permission of instructor. Focus on the complexities in the sociological understanding associated with social change and the long-term trends impacting local communities. Students will conduct data research and develop strategies for implementing planned social change projects.

**SOC 690 Religion in Society.** 3(3-0) S.

This course examines the relationship between religion and its social context. Students will explore the social nature of individual religious institutions. The interrelationship between religion and the problems created by modernity will be studied. Taught concurrently with SOC 390. Cannot receive credit for both SOC 390 and SOC 690.

**SOC 699 Thesis.** 1-6.

Independent research and study connected with preparation of thesis.

## College of Natural and Applied Sciences

142 Temple Hall, Phone: 836-5249, FAX: 836-6934

Email: [CollegeofNaturalandAppliedSciences@missouristate.edu](mailto:CollegeofNaturalandAppliedSciences@missouristate.edu)



Temple Hall Research Laboratory.

**Dean: Professor Lawrence E. Banks, Ph.D.**

**Associate Dean: Professor William H. Cheek, Ph.D.**

**Associate Dean for Agricultural Sciences: Professor Innocent C. Onwueme**

The College of Natural and Applied Sciences includes:

### School of Agricultural Sciences

#### Department of Agriculture

**Department Head:** Professor W. Anson Elliott, Ph.D.

201 Karls Hall, Phone 836-5638

#### Department of Applied Consumer Sciences

**Department Head:** Associate Professor Michele M. Granger, Ed.D.

300 Park Central Office Building, Phone 836-5136

#### Department of Fruit Science

**Department Head:** Professor Innocent C. Onwueme, Ph.D.

Research Campus, Mountain Grove, MO 65711, Phone 417/926-4105

### Department of Biology

**Department Head:** Professor S. Alicia Mathis, Ph.D.

218 Temple Hall, Phone 836-5126

### Department of Chemistry

**Department Head:** Professor Tamera S. Jahnke, Ph.D.

423 Temple Hall, Phone 836-5506

### Department of Computer Science

**Department Head:** Professor Lloyd Smith, Ph.D.

203C Cheek Hall, Phone 836-4157

### Environmental Sciences and Policy Program

**Coordinator:** Professor William H. Cheek, Ph.D.

142 Temple Hall, Phone 836-5249

### Department of Geography, Geology, and Planning

**Department Head:** Professor Thomas G. Plymate, Ph.D.

363 Temple Hall, Phone 836-5800

### Department of Mathematics

**Department Head:** Professor Yungchen Cheng, Ph.D.

10M Cheek Hall, Phone 836-5112

### Department of Physics, Astronomy and Materials Science

**Department Head:** Professor Pawan K. Kahol, Ph.D.

101 Kemper Hall, Phone 836-5131

## Centers for Research and Service

### Center for Resource Planning and Management

The Center provides educational training, applied research and community outreach services in the field of urban planning and community development. Services provided to local governments, state and federal agencies and civic organizations include small town planning, comprehensive planning, grant writing, economic development planning, digital cartographic services and specialty planning services. The Center is an affiliate census data center of the Missouri State Library and is the administrative agent of the Southwest Missouri Advisory Council of Governments.

### Center for Scientific Research and Education

The Center promotes scientific research, service, and educational activities by matching the professional expertise and physical facilities of the College of Natural and Applied Sciences with the needs of private firms, not-for-profit organizations, government agencies, and educational institutions. While serving the University's external constituents, the Center provides research and service opportunities for faculty and students.

### Mid-America Viticulture and Enology Center

The mission of the Mid-America Viticulture and Enology Center is to promote growth of the grape and wine industry through focused research, advisory, and service activities. This center coordinates work carried on in viticulture and enology so as to efficiently use available resources in Missouri and surrounding states. The center is located on the Mountain Grove Campus, which has long been recognized for its grape research and advisory work.

## Graduate Program

A Master of Natural and Applied Science degree is administered by the College of Natural and Applied Sciences. Additional graduate programs are offered through the academic departments in the College of Natural and Applied Sciences. See the department sections of this catalog and the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Science Education Courses

### SCI 414 (SEC) Teaching of Middle and Secondary School Natural Science. 3(2-2) F,S.

Prerequisite: admission to teacher education program; minimum of one required course in BIO, CHM, PHY, GLG or GRY; EDC 350 or concurrent enrollment; RDG 474 is recommended; secondary majors must have completed 20 hours in their primary science field. Integration of current science learning theories and standards into practical classroom experiences for students of diverse backgrounds and abilities. Credited only on B.S. in Education. A grade of "C" or better is required in this class prior to beginning supervised teaching courses. This course may not be taken Pass/Not Pass.

### SCI 493 Supervised Teaching in the Natural Sciences (Secondary). 6, F,S.

Prerequisite: completion of SCI 414; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education Degree (Secondary). Students

will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Cannot receive credit for both SCI 493 and SEC 493.

### SCI 494 Supervised Teaching in the Natural Sciences (Secondary). 6, F,S.

Prerequisite: SCI 493 or concurrent enrollment. Student observes then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education Degree (Secondary). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. Cannot receive credit for both SCI 494 and SEC 494.

### SCI 499 Clinical Experiences in Teaching II. 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate PRAXIS exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

### SCI 505 (PHY) Intellectual Foundations of Science and Technology. 3(3-0) S.

Prerequisite: 70 hours including 8 hours of natural science. An historical and philosophical examination of the origins and the development of science and technology. The differences between science and technology, their interrelationships in modern times, and the impact of each of these on society will be considered.

### SCI 580 Topics in Science Education. 1-4, D.

Prerequisite: senior level or graduate standing; or permission of instructor. A variable content course for offering selected topics of interest to science teachers in the elementary, middle, or secondary schools; or in college classrooms. May be repeated up to 6 hours when the topic varies. No more than 6 hours may be counted toward a degree.

### SCI 680 Advanced Topics in Science Education. 1-4, D.

Prerequisite: graduate standing and 12 hours of graduate coursework completed; or permission of instructor. A variable content course for offering selected topics of interest to science teachers in the elementary, middle, or secondary schools; or in college classrooms. May be repeated up to 6 hours when the topic varies. No more than 6 hours may be counted toward a degree.

## School of Agricultural Sciences

142 Temple Hall, Phone 836-5249, FAX: 836-6934

Email: [CollegeofNaturalandAppliedSciences@missouristate.edu](mailto:CollegeofNaturalandAppliedSciences@missouristate.edu)

The School of Agricultural Sciences encompasses the departments of Agriculture, Applied Consumer Sciences, and Fruit Science.

**Director: Professor Lawrence E. Banks, Ph.D.**

**Associate Dean for Agricultural Sciences: Professor Innocent C. Onwueme, Ph.D.**

### Department of Agriculture

**Department Head:** Professor W. Anson Elliott, Ph.D.

201 Karls Hall, Phone 836-5638

### Department of Applied Consumer Sciences

**Department Head:** Associate Professor Michele M. Granger, Ed.D.

300 Park Central Office Building, Phone 836-5136

### Department of Fruit Science

**Department Head:** Professor Innocent C. Onwueme, Jr., Ph.D.

Research Campus, Mountain Grove, MO 65711, Phone (417) 926-4105

### Mid-America Viticulture and Enology Center

The mission of the Mid-America Viticulture and Enology Center is to promote growth of the grape and wine industry through focused research, advisory, and service activities. The Center coordinates work carried on in viticulture and enology so as to efficiently use available resources in Missouri and surrounding states. The Center is located on the Mountain Grove campus, which has long been recognized for its grape research and advisory work.

### Darr Agriculture Research and Demonstration Center

The Center serves as a laboratory and field experience classroom for the study of livestock management, equine studies, horticulture, agronomy, animal science and wildlife conservation and management. An additional benefit of the center is that it provides agricultural/green space within the rapidly expanding Springfield metropolitan area.

## Department of Agriculture

201 Karls Hall, Phone: 836-5638, FAX: 836-6979  
Email: Agriculture@missouristate.edu

**Department Head:** Professor W. Anson Elliott, Ph.D.

**Professors:** Ben D. Fuqua, Ph.D.; Lyndon N. Irwin, Ph.D.; R. Bruce Johnson, Ph.D.; Thomas Perkins, Ph.D.; Michael P. Roling, Ph.D.; Dennis Schmitt, Ph.D., D.V.M.; Jon H. Wiggins, Ed.D.

**Associate Professors:** James B. Hutter, Ph.D.; Arbindra Rimal, Ph.D.; Pamela Trewatha, Ph.D.

**Assistant Professors:** Clydette M. Alsup, Ph.D.; Weston D. Walker, Ph.D.; Gary W. Webb, Ph.D.

**Lecturer:** Susan Webb, M.S.

**Emeritus Professors:** W. Gayle Ashley, M.S.; Robert F. Glenn, Ph.D.; Harry R. James, Ph.D.; Vernon E. Renner, Ph.D.; John D. Schatz, M.S.; J. N. Smith, Ph.D.; C. E. Stufflebeam, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Agriculture Education, B.S.Ed., Secondary Education/Agriculture, M.S.Ed.

### General Education Courses

AGR 100 may be used to satisfy the Social Science Perspective of the Culture and Society Area of Inquiry; and AGR 320 may be used to meet the Writing II Basic Required Course of the General Education Requirements.

## Majors

### Agricultural Business (Comprehensive)

#### Bachelor of Science

A. General Education Requirements (see “Academic Programs and Requirements” section of catalog)

Specific General Education courses: CHM 105(5); MTH 135(3) or MTH 138(5); PSY 121(3)

B. Major Requirements (59-65 hours)

1. Complete one of the following options:

a. **Agricultural Enterprise Management** (18 hours)

1. AGB 344(3) or AGB 584(3); MTH 384(3)

2. Complete 12 hours from one of the following groups:

a. Animal Science: AGS 101(4), AGS 161(3), AGS 301(3), AGS 302(3), AGS 306(3), AGS 311(3), AGS 316(3), AGS 342(2), AGS 346(2), AGS 361(3), AGS 402(2), AGS 432(2), AGS 441(2), AGS 446(3), AGS 451(3), AGS 452(3), AGS 461(3), AGS 511(3); AGA 365(3) or AGA 375(3)

b. Agronomy: AGA 335(3), AGA 365(3), AGA 375(3), AGA 405(3), AGA 425(2), AGA 485(3), AGA 455(2), AGA 545(3), AGA 555(3), AGA 575(2)

c. Horticulture: AGH 243(2), AGH 303(3), AGH 323(2), AGH 333(3), AGH 343(3), AGH 353(3), AGH 363(3), AGH 393(3), AGH 483(3), AGH 403(3), AGH 443(3), AGH 573(3)

b. **Agricultural Finance and Management** (22 hours)

1. ACC 211(3), AGB 344(3), AGB 584(3)

2. Complete two courses from: ACC 311(3), ECO 305(3), FGB 380(3), FGB 485(3), MGT 340(3), MGT 345(3), RIL 211(3), RIL 266(3), RIL 415(3)

3. AGS 101(4), and one of the following: AGS 311(3), AGH 303(3), AGH 353(3), AGH 483(3), AGA 335(3), AGA 365(3), AGA 375(3), AGA 485(3), AGR 383(3)

c. **Agricultural Marketing and Sales** (16 hours)

1. AGB 344(3) or AGB 584(3)

2. Complete two courses from: MKT 351(3), MKT 354(3), MKT 355(3), MKT 360(3), MKT 474(3); MGT 340(3) or MGT 345(3)

3. AGS 101(4), and one of the following: AGS 311(3), AGH 303(3), AGH 353(3), AGH 483(3), AGA 335(3), AGA 365(3), AGA 375(3), AGA 485(3), AGR 383(3)

C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Agriculture Education

#### Bachelor of Science in Education

##### (Certifiable grades 9-12)

A. General Education (see General Education section of catalog)

Specific General Education Requirements: BIO 102(4); CHM 105(5) or 160(4); MTH 135(3) or 138(5); PSY 121(3)

B. Major Requirements

1. AGS 101(4); AGA 105(3), 215(3); AGB 144(4), 334(3); AGH 303(3); AGE 337(3); AGW 143(3)

2. AGE 318(2), 568(3), 578(2), 588(2)

3. Area of Specialization: Students must select a minimum of 20 hours of Agriculture courses to complete 45 hours of Technical Agriculture required by the State Department of Education.

C. Professional Education courses: AGE 558(3), 493(5-6), 494(5-6) and see College of Education/Secondary Education section

D. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a “C” in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### Agronomy (Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

Specific General Education Requirements: BIO 102(4) or 121(4); CHM 105(5) or 160(4); MTH 135(3) or MTH 138(5)

B. Major Requirements

1. AGA 105(3), 215(3), 335(3), 365(3), 405(3), 425(2), 485(3), 490(1); AGB 144(4), 334(3) or 364(2); AGH 483; AGR 157(3), 300(3), 383(3); AGS 101(4), 311(3)

2. Select one course from: AGA 353(3); AGH 375(3)

3. Select one course from: AGA 345(2), 455(2), 495(2), 499(3)

4. Select one course from: AGA 545(3), 555(3), 575(2)

5. Select one course from: AGB 344(3), 354(2), 394(1), AGR 444(2)

C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### **Animal Science (Comprehensive) Bachelor of Science**

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: BIO 102(4); CHM 105(5) or 160(4); MTH 135(3) or MTH 138(5)
- B. Major Requirements
  1. AGS 101(4), 301(3), 302(3), 311(3), 316(3), 491(1); AGA 105(3), 215(3), 365(3) or 375(3); AGB 144(4); AGR 300(3), 330(3); BIO 210(3).
  2. Select a minimum of 24 hours from the following two groups of courses including at least eight hours from each group:
    - a. Group A courses: AGS 161(3), 191(2), 196(2), 306(3), 342(2), 346(2), 361(3), 402(3), 432(2), 442(2), 446(3), 451(3), 452(3), 461(3), 511(3)
    - b. Group B courses: AGR 250(2), 377(3), 383(3), 499(3); AGB 314(3), 334(3), 344(3), 364(2), 394(1), 584(3); AGA 335(3), 405(3)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### **General Agriculture Bachelor of Applied Science**

- A. General Education (see "Academic Programs and Requirements/General Education" section of catalog)
- B. Major Requirements
  1. Associate of Science or Associate of Applied Science degree from an accredited institution. Contact the department for details.
  2. AGA 105(3), 215(3); AGB 144(4); AGR 157(3); AGS 101(4)
  3. Thirty-five credit hours of upper-division courses in agriculture
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### **General Agriculture (Comprehensive) Bachelor of Science**

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: AGR 100(3), BIO 102(4) or 121(4), CHM 105(5), MTH 135(3) or 138(5), PSY 121(3).
- B. Major Requirements
  1. AGS 101(4); AGA 105(3), 215(3); AGB 144(4); AGR 157(3); AGR 300(3) or CHM 200(5)
  2. Select 3 additional hours from each area:  
Agricultural Business  
Animal Science  
Horticulture
  3. Select one of the following options:
    - a. **Agricultural Communications** (27-29 hours)  
COM 209(3) or MED 120(3), JRN 270(3), AGR 250(2) or 499 (3-5); or AGB 394(1)  
Select an additional 16 hours of courses with ENG, MED, COM, or JRN prefixes in consultation with your advisor.
    - b. **Agriculture** (27-29 hours)  
AGB 314(3) or AGR 250(2) or AGR 499(3-5)  
Select 6 additional hours of Agriculture courses from each of the following areas:  
Agricultural Business  
Agronomy  
Animal Science  
Horticulture
    - c. **Food Plant Management** (27-29 hours)  
ACC 201(3), BIO 210(3), MGT 340(3) or 345(3), AGB 394(1) or AGR 499(3-5)  
Select an additional 15 hours from the following:  
AGS 342(2) or 346(2); BMS 331(3); HRA 321(3); RIL 231(3), 531(3); ENG 321 or MGT 286(3); MTH 340(3) or QBA 237(3); IDM 355(3), 455(3), 456(3), 550(3); AGS 491(1).

- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### **Horticulture (Comprehensive) Bachelor of Science**

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: BIO 102(4) or 121(4); CHM 105(5); PSY 121(3)
- B. Major Requirements
  1. AGH 343(3), 353(3); AGH 393(3) or FRS 401(3); 483(3)
  2. Select a minimum of 11 hours from: AGH 243(2), 323(2), 333(3), 363(3), 403(3), 443(3), 573(3); AGA 575(2); AGW 143(3)
  3. Other Agriculture Requirements  
AGA 105(3), 215(3), 405(3), 485(3); AGA 335(3) or AGR 357(3); AGB 144(4), 364(2); AGR 383(3), 490(1), 499(3); AGR 300(3) or any AGS class for 3 credit hours
  4. BIO 334(3) or 339(2); ACC 201(3)
  5. Select two courses from: MGT 320(3), 345(3), 384(3); MKT 350(3)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### **Technology Education Bachelor of Science in Education (Certifiable grades 9-12)**

- A. General Education Requirements (see "Academic Programs and Requirements/General Education" section of catalog)  
Specific General Education courses: BIO 102(4); PSY 121(3); ENG 110(3) and ENG 310(3) or ENG 321(3) or AGR 320(3); Recommend MTH 135(3) or MTH 138(5)
- B. Major Requirements (45 hours)
  1. Technical Core (36 hours)
    - a. Courses to be taken at Ozarks Technical College:  
Communications: PRT 101(4), DDT 100(4)  
Energy/Power: IMT 130(4) or ELT 102(4); and AUM 110(4) or AUM 121(4)  
Materials/Processes: DDT 115(4), MMT 125(4)
    - b. Courses to be taken at Missouri State University:  
Energy/Power: AGR 357(3)  
Materials/Processes: AGE 337(3), AGR 377(3)  
Safety: IDM 455(3)
  2. Technical Education (9 hours)  
AGT 416(3), AGT 420(3); AGT 521(3) or AGV 521(3)
- C. Professional Education Courses  
SEC 495(2); AGT 493(5); AGT 494(5)
- D. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### **Wildlife Conservation and Management (Comprehensive) Bachelor of Science**

- This major is offered in cooperation with the Biology Department.
- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: BIO 121(4); CHM 105(5) or 160(4); GLG 110(4); GRY 100(3); MTH 135(3) or 138(5)
  - B. Major Requirements
    1. Agriculture Requirements:

- a. AGA 105(3), 215(3), 335(3), 365(3) or 375(3); AGR 383(3); AGW 143(3), 496(1)
- b. Select two courses (4-6 hours) from: AGA 485(3); AGB 354(2); AGH 333(3), 483(3); AGW 351(2)
2. Biology Requirements:
  - a. BIO 121(4)\*, 122(4)\*, 334(3), 339(2) or 545(2), 373(3)
  - b. Select one course from: BIO 369(4), 436(4), 562(4)
  - c. Select two courses from: BIO 573(3), 575(3), 577(3)

\*Students who have completed BIO 134 and 167 combination are not required to take BIO 121 and 122; BIO 121 and 122 cannot count as degree credit if BIO 134 and 167 are counted as credit.
3. Select ten additional hours in Agriculture and/or Biology
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

## Minors

Minors in agriculture are available to students majoring in departments other than agriculture.

### Agriculture Bachelor of Science in Education (Non-Certifiable)

- A. Select at least one course from each of the following areas: agriculture economics, animal husbandry, soils, field crops
- B. Select at least one course from: dairy husbandry, horticulture, poultry husbandry
- C. Select additional courses to complete 24 hours or more of agriculture. Students desiring to minor in agriculture on the Bachelor of Science in Education should confer with a member of the agriculture staff before scheduling to receive advice of desirable courses which meet their special needs.

### Agricultural Business Bachelor of Science

AGB 144(4), 394(1); plus electives from the following courses to total at least 20 hours in agricultural economics: AGB 334(3), 344(3), 354(2), 374(2), 524(3), 584(3)

### Agronomy Bachelor of Science

AGA 105(3); plus electives from the following courses to total at least 20 hours: AGA 215(3), 335(3), 365(3), 375(3), 405(3), 455(3), 485(3), 545(3), 575(2); AGH 483(3); AGR 300(3); AGW 143(3)

### Animal Science Bachelor of Science

AGS 101(4), 311(3); plus electives from other courses in animal science to total at least 20 hours.

### Equine Studies Bachelor of Arts Bachelor of Science

AGS 101(4), 161(3), 191(2), 311(3), 461(3); plus at least 6 additional credits in Equine Studies to be determined by consultation with advisor.

### General Agriculture Bachelor of Science

AGA 105(3), AGB 144(4), AGS 101(4); plus electives in agriculture to total at least 20 hours.

### Horticulture Bachelor of Science

AGA 105(3); plus electives from the following courses to total at least 20 hours: AGH 243(2), 323(2), 333(3), 343(3), 353(2), 363(3), 393(3), 443(3), 483(3), 573(3); AGR 383(3)

### Pre-Professional Curriculum in Veterinary Medicine

Students considering this program should consult with the Pre-Veterinary advisor in the Department of Agriculture.

**Option I:** To be eligible to apply to the College of Veterinary Medicine at the University of Missouri, a minimum of 64 hours must be completed including the following courses: CHM 160(4), 170(3), 175(2), 200(5), and 350(3); COM 115(3); ENG 110(3); MTH 138(5), or 135(3) and 181(3); PHY 123(4) and 124(4); 10 hours of biological sciences — BIO 210(3) or 310(5), and 380(5) are recommended; plus 10 hours of courses in the social sciences and humanities.

**Option II:** By completing this option of approximately 100 hours, a student may apply for a B.S. degree in Animal Science from Missouri State University after successfully completing the first two years in the College of Veterinary Medicine at the University of Missouri.

	Hours
A. General Education Requirements .....	43-54
B. Science and Mathematics Requirements .....	38-47
BIO 210(3) or 310(5), 380(5); CHM 160(4), * 170(3), 175(2), 200(5) and 350(3); MTH 138(5)* or 135(3)* and 181(3); and PHY 123(4)* and 124(4)	
C. Agriculture Requirements .....	32
AGS 101(4), 301(3), 302(3) or 306(3), 311(3), 316(3) and 511(3); AGA 105(3), 215(3); AGB 144(4); AGR 330	

\*May be included in general education requirements.

## Graduate Programs

The Master of Science degree offers a major in Plant Science. The Master of Science in Education (secondary education major) and the Master of Natural and Applied Science degrees offer an area of emphasis in Agriculture. See the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Agriculture Courses (General)

**AGR 100 Technology's Impact on Society.** 3(3-0) F.S.

Technological progress of agriculture and industry and its socio-economic impact in a global environment.

**AGR 108 Topics in Agriculture.** 1(1-0) F.S.

A course designed to treat specific areas of agriculture to meet specialized student needs. Treatment of the subject will include consideration

of historical, theoretical, scientific, and application aspects. May be repeated up to a total of 4 hours provided the same topic is not repeated. Variable Content Course.

**AGR 110 Agriculture Orientation.** 1(1-0) F, S.

Introduction to the educational opportunities, facilities, services, and activities with specific emphasis toward the Department of Agriculture. Course designed for students interested in Agriculture.

**AGR 118 Leadership.** 1(1-0) F.

A course for entering freshmen students to examine leadership through the observation and analysis of leaders in various career paths. To demonstrate leadership through class projects.

**AGR 157 Principles of Agricultural Mechanization.** 3(3-0) F,S. Engineering and mechanical principles; their application to agriculture equipment, systems and concepts.

**AGR 200 Mini Agriculture.** 1(1-0) F,S.

A course designed to treat specific areas of agriculture to meet specialized student needs. Treatment of the subject will include consideration of historical, theoretical, scientific and application aspects. May be repeated up to a total of 4 hours provided the same topic is not repeated. A course fee may be charged for selected sections. Variable Content Course.

**Approved recurring course topic: Floral Design I.** 1(1-0) D.

Basic concepts and elements of floral design. Specific emphasis on aesthetics, color, shape, space and texture. Course Fee.

**Approved recurring course topic: Floral Design II.** 1(1-0) D.

Assist student to develop his or her unique individual style of advanced floral design. Expansion on basic concepts and elements. Specific emphasis placed on aesthetics, color, shape, space and texture. Course Fee.

**Approved recurring course topic: Home and Garden Insects.** 1(1-0) D.

Basic concepts of pest control appropriate for residences and businesses.

**Approved recurring course topic: Rodeo Techniques.** 1(1-0) D.

Provide students with an appreciation for and general knowledge of rodeo history, events, organizations, economic impact on today's society and future direction.

**AGR 250 (350) Agricultural Communications.** 2(2-0) S.

Recommended: ENG 110 and COM 115. Introduces the scope and applications of communications and journalism as they relate to agriculture.

**AGR 299 Special Topics.** 1-5, D.

Prerequisite: permission of instructor. Special study of agricultural topics not treated in other courses. Course may be repeated to a total of 5 hours provided the same topic is not duplicated. Variable Content Course.

**AGR 300 Food and Agricultural Chemistry.** 3(3-0) F,S.

Prerequisite: CHM 105 or CHM 160. Chemistry, sources and importance of biological materials used for food, fiber, and feed for man and domestic animals.

**AGR 313 Beekeeping.** 2(1-2) D.

Prerequisite: permission of instructor. Fundamentals needed for the amateur to establish and maintain honey bees and produce a surplus honey crop.

**AGR 320 Writing II: Writing in the Applied Sciences.** 3(3-0) F,S.

Prerequisite: ENG 110 and 45 credit hours. Strategies for accessing information. Writing proposals, progress reports, final reports, manuals, and on-line documents for the Applied Sciences.

**AGR 330 Statistical Applications in Agriculture.** 3(2-2) F,S.

Recommended: either MTH 130 or higher and either CIS/CSC 101 or CSC 111. Collection, display, analysis and application of agricultural data, including measurement of location and dispersion, probability, normal distribution, sampling, sampling distributions, hypothesis testing, analysis of variance, correlation and regression analysis. Computer statistical packages will be used for simulation study and agricultural data analysis. Applications are specific to Agriculture. A student may not receive credit toward a degree for more than one of the following courses: AGR 330, ECO 308, MTH 340, PSY 200, QBA 237, REC 331, SOC 302.

**AGR 357 Agricultural Power.** 3(2-2) F.

Recommended: MTH 130 or higher. Principles of operation, construction and utilization of power units.

**AGR 367 Agricultural Machinery.** 3(2-2) S.

Recommended: MTH 130 or higher. Principles of construction, operation, selection and utilization of farm field equipment.

**AGR 377 Agricultural Structures and Systems.** 3(2-2) S.

Recommended: MTH 130 or higher. Functional and structural design of unified structures and systems for agricultural enterprises.

**AGR 383 Applied Entomology.** 3(2-2) F,S.

Principles of insect life; careful study of a number of common insect pests, their identification and control.

**AGR 399 Special Topics.** 1-5, D.

Special study of agricultural topics not treated in other courses. Course may be repeated to a total of 5 hours provided the same topic is not duplicated. Variable Content Course.

**Approved recurring course topic: Agriculture and Water Quality.** 1(1-0) D.

Issues related to agriculture and its impact on water quality - both surface and ground water. Common practices that have a negative impact will be studied along with practices that can have positive and/or minimal impact on water quality.

**Approved recurring course topic: Events Management.** 1(1-0) D.

Specific tasks of organization, marketing, and managing resources for special events.

**Approved recurring course topic: Principles of Horseshoeing.** 1(1-0) D.

Horseshoeing techniques including safe use of tools and handling of horses. Course Fee.

**Approved recurring course topic: Therapeutic Riding.** 3(0-6) S.

Recommended: AGS 162 or AGS 262. Introduction to therapeutic riding and the role of the horse in equine assisted therapy programs. Development of horses and volunteers for use in a therapeutic riding program.

**AGR 490 Agronomy/Horticulture Senior Seminar.** 1(1-0) F,S.

Prerequisite: 90 credit hours. Presentation, discussions and analysis of professional and technical topics in Agronomy and Horticulture.

**AGR 499 Internship in Agriculture.** 1-8, D.

Prerequisite: permission of instructor. Supervised agricultural work experience. A paper describing and analyzing the experience required. May be repeated for a total of 10 credit hours.

**Approved recurring course topic: Internship-Equine.** 1-8, D.

An academic program to integrate class experience with actual practice and to provide students with hands-on experience in businesses or agencies which employ agriculture majors.

**Approved recurring course topic: Internship-Horticulture.** 1-8, D.

An academic program to integrate class experience with actual practice and to provide students with hands-on experience in businesses or agencies which employ agriculture majors.

*The following courses are only open to graduate students.*

**AGR 690 Introduction to Agricultural Research Methods.** 3(3-0) D.

Prerequisite: permission of instructor. This course is designed to provide an introduction to the process of research. The course will address planning, conducting, and reporting research; and development of good consumers of research.

**AGR 697 Seminar.** 1(1-0) D.

Prerequisite: permission of advisor. In-depth study in an area of agriculture, culminating in an extensive scholarly presentation. May be repeated to a total of three hours.

**AGR 698 (AGH) Research.** 1-6 F,S,Su.

Prerequisite: permission of instructor. Supervised research in agriculture. May be repeated, but not more than 6 hours may be counted toward the 32 hour degree.

**AGR 699 Thesis.** 1-6 F,S,Su.

Prerequisite: permission of instructor. Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated. A minimum of 6 hours will be applied toward a master's degree.



## Agricultural Business Courses

**AGB 144 (AGR) Agricultural Economics I.** 4(3-2) F,S.

Characteristics of our economic system and basic economic concepts with applications to agriculture. Effects on agriculture by money and banking systems, monetary and fiscal policies, government policies, and international trade.

**AGB 314 (AGR) Legal Aspects of Agriculture.** 3(3-0) F.

Recommended: 30 credit hours. Legal framework impinging upon decision making of farm business including farm ownership and transfer, taxation, business organization, losses, and regulations of land and water use.

**AGB 334 (AGR) Marketing Agricultural Products.** 3(2-2) F,S.

Required: AGB 144 or ECO 165. Marketing functions and agencies involved in the movement of farm products from producers to consumers. Explains how the economic behaviors of the farmers, marketing agents and consumers affect the organization and performance of the food markets.

**AGB 344 (AGR) Financing Agriculture.** 3(2-2) F,S.

Recommended: AGB 144. Capital requirements and sources and uses of each type of credit.

**AGB 354 (AGR) Land Economics.** 2(2-0) F,S.

Recommended: AGB 144. Principles and institutions affecting the allocation of land resources among uses and users.

**AGB 364 (AGR) Agricultural Resource Marketing.** 2(2-0) F.

Prerequisite: AGB 334. Utilization of market theories to examine the structure, conduct, performance and merchandising strategies of firms involved in marketing Agricultural resources.

**AGB 374 (AGR) Agricultural Business Management.** 3(2-2) F.

Recommended: AGB 144. A study of agricultural firm management including planning, organizing, directing, controlling and coordinating functions used to attain business goals. The role of finance and type of business organization including agricultural cooperatives.

**AGB 384 (AGR) Agricultural Selling.** 2(2-0) F.

Prerequisite: AGB 334. Principles of selling with application to agricultural inputs and products. Attitudes, value systems, and behavioral patterns that relate to agricultural sales. Relationship of sales to marketing, selling strategies, preparing for sales calls, making sales presentations, handling objections, and closing sales. Analysis of the buying or purchasing process. Evaluation of agri-selling as a possible career choice.

**AGB 394 (AGR) Agricultural Industry Study.** 1(0-2) S.

Prerequisite: 60 credit hours including 6 hours in agricultural business and permission of instructor. A five-day study alternating between St. Louis and Kansas City to examine the management process of a variety of agricultural businesses. May be repeated for a total of 2 credit hours. Course Fee.

**AGB 444 (AGR) American Agricultural Policy.** 2(2-0) S.

Prerequisite: AGB 144. Description and analysis of economic problems of U.S. Agriculture. History and significance of government programs to support farm prices and incomes, conserve land resources, encourage adequate food supplies and expand U.S. agricultural trade.

**AGB 494 (AGR) Problems in Agricultural Business.** 1-3, F,S.

Prerequisite: permission of instructor. A student selects a specific topic, prepares an outline, makes an investigation and presentation under the supervision of an agricultural business staff member.

**AGB 514 International Agricultural Trade.** 3(2-2) D.

Prerequisite: AGB 334 or MKT 350. Gains from trade, agricultural trade policies of exporters and importers, exchange rates, multilateral trade negotiations, preferential trade agreements, technical barriers and environmental regulations and trade.

**AGB 524 (AGR) Agricultural Prices.** 3(2-2) F,S.

Prerequisite: AGB 334. Factors influencing the level and movement of agricultural commodity prices and prices of agricultural inputs.

**AGB 584 (AGR) Farm Business Management.** 3(2-2) F,S.

Prerequisite: AGB 144. Economic principles applied to the organization and operation of agricultural units; tools of decision-making; and factor allocation.

## Agricultural Education Courses

**AGE 318 (AGR) Introduction to Agricultural Education.** 2(2-0) F. Prerequisite: 30 credit hours. Building an acquaintance with the aims, philosophy, functions, opportunities and demands of agricultural education programs.

**AGE 337 (AGR) Agricultural Mechanics Practices.** 3(1-4) F.

Shop processes and techniques required for the construction, repair, and maintenance of agricultural facilities and equipment.

**AGE 493 Supervised Teaching (Secondary) in Agriculture.** 5-6, S.

Prerequisite: completion of all method courses in agriculture; "C" or better grades in all professional education courses; and approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the university supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary) degrees. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**AGE 494 Supervised Teaching (Secondary) in Agriculture.** 5-6, S.

Prerequisite: AGE 493 or concurrent enrollment. Student observes, then teaches agricultural classes under the direction of the cooperating teacher and the university supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary) degrees. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**AGE 498 (AGR) Problems in Agricultural Education.** 1-3, D.

Prerequisite: permission of instructor. May be repeated with permission.

**AGE 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate PRAXIS exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**AGE 508 (AGR) Teaching Adults in Vocational Education.** 3(3-0)

D. (Identical with AGV 527 and SEC 527)

Rise of the adult education movement; learning abilities, educational interests and vocational needs of adults; problems and procedures in organizing and operating adult education programs; relationship of adult education to public school education.

**AGE 518 (AGR) Agriculture Education – Special Topics.** 1-3, D.

Prerequisite: permission of instructor. Special study of agricultural education topics not covered in other courses. Course may be repeated to a total of 5 hours provided the same topic is not duplicated.

**AGE 548 Agriculture in the Classroom.** 1(1-0) Su.

Course is designed to help elementary teachers better appreciate the importance of agriculture in their student's lives and to better understand Missouri agriculture. Course stresses integration of resources available from the agricultural industry across the curriculum.

**AGE 558 (404) Teaching of Agriculture.** 3(3-0) S.

Prerequisite: SEC 302 and EDC 350 and 20 hours in agriculture and admission to the teacher education program. Establishing objectives and organizing the course, selecting textbooks and equipment, securing and using teaching aids; using workbooks and notebooks, planning field

trips, selecting and supervising projects. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take AGE 493 or AGE 494. May not be taken Pass/Not Pass.

**AGE 568 (468) Course and Program Building in Agricultural Education.** 3(3-0) S.

Prerequisite: AGE 318 and AGE 558 and 60 credit hours. Organization and analysis of agricultural instruction courses and programs; including the adoption of resource materials to meet individual student needs.

**AGE 578 (478) Methods of Teaching Agricultural Management.** 2(2-0) S.

Prerequisite: AGE 318 and AGE 558 and 60 credit hours. Identification, development, and utilization of supervised agriculture experience programs in Agricultural Education that includes methods of teaching program management, record keeping, and appropriate methodologies.

**AGE 588 (488) Methods of Teaching Agricultural Laboratory Management.** 2(1-2) S.

Prerequisite: AGE 318 and AGE 558 and 60 credit hours. Prepare prospective agricultural science teachers to determine subject matter, methods of teaching, and organization of equipment and facilities as applied to agricultural laboratories in high schools.

*The following courses are open only to graduate students.*

**AGE 618 (AGR) Topics in Agricultural Education.** 1-3, D.

Prerequisite: permission of instructor. Current developments and trends in teaching agricultural education as well as new developments in resources and techniques. Students may repeat course, however, only 9 hours will count towards the student's graduate program of study.

**AGE 628 Induction Year Teaching I.** 2(2-0) F,S.

Prerequisite: permission of instructor. Course for the professional development of first-year teachers of agriculture. The course focuses on the pedagogical knowledge, skills, and attitudes and managerial skills needed by beginning teachers of agriculture.

**AGE 638 Induction Year Teaching II.** 2(2-0) F,S.

Prerequisite: AGE 628. Course for the professional development of second-year teachers of agriculture. The course is a continuation of AGE 628 and focuses on the pedagogical knowledge, skills, and attitudes and managerial skills needed by beginning teachers of agriculture.

## Agricultural Vocational Courses

**AGV 520 Occupational Analysis.** 1-2, D. (Identical with BSE 520)  
Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. May be repeated to a total of 2 hours when topic varies.

**AGV 521 Selection and Organization of Industrial Education.** 3(3-0) D. (Identical with AGT 521)

Selection and arrangement of units to teach; preparation of informational and job assignments; selection, purchase and arrangement of laboratory equipment; dispensing of supplies and keeping of adequate records. Course typically taken in same semester as AGT 416.

**AGV 522 Philosophy of Vocational Education.** 1-3 D. (Identical with SEC 522 and BSE 522)

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. May be repeated to a maximum of 3 credit hours when topic varies.

**AGV 523 Guidance for Vocational Development.** 1-3, D. (Identical with BSE 523)

Materials, procedures, and problems involved in the guidance of individuals in the selection of, preparation for, and advancement in a vocation. May be repeated to a total of 3 hours when topic varies.

**AGV 525 Organization and Management in Vocational Education.** 3(3-0) D.

A systematic approach to defining and measuring occupational knowledge, skills and attitudes based upon an occupational analysis, instructional methodology, evaluation, and program standards.

**AGV 526 Coordination of Cooperative Education.** 1-2, D. (Identical with BSE 526 and SEC 526)

Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. May be repeated to a total of 2 hours when topic varies.

**AGV 527 Teaching Adults in Vocational Education.** 3(3-0) D. (Identical with AGE 508 and SEC 527)

Rise of the adult education movement, learning abilities, educational interests, and vocational needs of adults; problems and procedures in organizing and operating adult education programs; relationship of adult education to public school education.

**AGV 528 Measurement and Evaluation of Vocational Education Programs.** 1-3, D. (Identical with BSE 528 and SEC 528)

Means for assessing specific program needs as determined from occupational surveys and other demographic data; follow-up techniques to evaluate the overall effectiveness of the program to the manpower needs in a given labor market area. May be repeated to a total of 3 hours with departmental approval when topic varies.

**AGV 576 Teaching of Industrial/Vocational Subjects.** 3(3-0) D.

Instructional methods and techniques of teaching industrial/vocational education subjects; attaining objectives of career and technical education, design and evaluation of instructional units; classroom and laboratory management; and development of evaluative instruments.

*The following courses are only open to graduate students.*

**AGV 624 Organization and Administration of Vocational Education.** 1-3, D. (Identical with SFR 624)

Problems, procedures and local, state and federal relationships in the organization and administration of vocational education in the contemporary school. May be repeated to a total of 3 hours when topic varies.

**AGV 626 Seminar in Industrial Education.** 3(3-0) D.

Presentation and discussion of professional or technical problems in the organization and management of programs and facilities in industrial education.

**AGV 660 Special Investigations.** 1-5, D.

The student, in consultation with the advisor, selects for in-depth study an area determined by the interest/career objectives of the student. Based on demand and timeliness of the subject, a cluster study group may engage in a joint investigation.

## Agronomy Courses

**AGA 105 (AGR) Soils and Crop Science.** 3(3-0) F,S.

Soils as influenced by geography, geology, temperature, rainfall, and other natural factors. Crop origin, adaptation, function and management principles are investigated.

**AGA 215 (AGR) Soils.** 3(2-2) F,S.

Recommended: CHM 105 or CHM 160. Physical, chemical and biological activities within the soil as related to moisture, temperature, drainage, and tillage.

**AGA 335 (AGR) Soil Conservation and Water Management.** 3(3-0) F,S.

Recommended: AGA 215. Conservation of soil by integrating the various mechanical and agronomic management practices needed for effective erosion control. Design and layout of water management practices on the land.

**AGA 345 (AGR) Soil Judging.** 2(1-2) F,S.

Recommended: AGA 215. Introduction to soil morphology, interpretation of water relationships, site characteristics, classification, and land use. A soil judging team will be selected from this class. May be repeated up to a total of 6 hours.

**AGA 365 (AGR) Grain Crops.** 3(3-0) F.

Recommended: AGA 105. Adaptation, production, and utilization of the major grain crops.

**AGA 375 (AGR) Forage Crops.** 3(3-0) S.

Recommended: AGA 105. Culture, preservation and management of crops useful for pasture, hay and silage.

**AGA 405 (AGR) Soil Fertility and Plant Nutrition.** 3(2-2) S.  
Recommended: AGA 215. Principles of soil fertility and fertilizer applications affecting nutrient availability and plant growth.

**AGA 425 (AGR) Soil and Crop Management.** 2(2-0) F.  
Recommended: AGA 215 and either AGA 365 or AGA 375. Integration of soil and crop management techniques necessary to enhance crop production and improve soil productivity.

**AGA 455 (AGR) Soil Genesis, Morphology and Classification.** 2(2-0) F.  
Recommended: AGA 215. Pedogenetic processes that are responsible for genesis, morphology, and classification of the eleven orders of soil taxonomy.

**AGA 485 (AGR) Weed Management.** 3(2-2) F.  
Recommended: either AGA 105 or AGA 375 and either BIO 102 or BIO 121 and either CHM 105 or 160. Identification, physiology and growth habits of weeds and their management in crop production and ecological systems.

**AGA 495 (AGR) Problems in Plant and Soil Science.** 1-3, F,S.  
Prerequisite: permission of instructor. Assigned investigations, dealing with current problems in plant and soil science supervised by an agricultural staff member. Student prepares outline, investigates sources of information concerning the subject, and summarizes his findings in a written report. May be repeated with permission.

**AGA 505 (AGR) Advanced Soil Fertility.** 3(2-2) D.  
Recommended: AGA 405. Theoretical and Applied aspects of soil fertility emphasizing ion transport, nutrient availability, and root absorption in soils-plant environments.

**AGA 545 (AGR) Soil Survey and Land Appraisal.** 3(2-2) F.  
Recommended: 6 credit hours in soils. Soil as a natural body, its morphological and chemical properties, and methods used to distinguish among different soils; description and identification of soil profiles; techniques in soil mapping; and interpretation of soil survey data.

**AGA 555 (AGR) Soil Genesis, Morphology, and Classification II.** 3(2-2) D.  
Recommended: AGA 345 and AGA 455. Pedogenetic processes, macromorphology, micromorphology, redoximorphic features, and classification as related to soil taxonomy.

**AGA 575 (AGR) Plant Improvement.** 2(2-0) S.  
Recommended: AGA 105. Application of genetic principles to the improvement of crop plants. Includes self-pollinated, cross-pollinated, and asexually-propagated crops.

*The following course is only open to graduate students.*

**AGA 625 (AGR) Advanced Soils Interpretations.** 3(2-3) D.  
Recommended: AGA 345 and AGA 455. Field interpretation of physical and chemical properties, water relationships, and soil landscape relationships.

## Animal Science Courses

**AGS 101 (AGR) Animal Science.** 4(4-0) F,S.  
Introduction to farm animal industries, breeds, numbers, distribution, nutrition, heredity, reproduction, health and products.

**AGS 161 (AGR) Introduction to Horses.** 3(2-2) F.  
Scope and role of the horse industry. Responsibilities of ownership; selection, breeds-development and uses; basic care-nutrition, health care, conditioning; and facilities.

**AGS 162 (AGR) Introduction to Riding.** 1(0-2) F,S,Su.  
This is an introductory course with a focus on safe and effective techniques for both English and Western riding. Students are responsible for transportation and payment of a horse care fee. The course may be repeated for a total of 3 hours. Course fee.

**AGS 191 (AGR) Evaluation and Performance Appraisal of Horses.** 2(0-4)D.  
Detailed evaluation of athletic performance of horses; influence of training and other environmental effects, heredity, and conformation; use of racing and performance records, visual appraisal, and industry trends; oral and written defense of judgements.

**AGS 196 (AGR) Dairy and Meat Animal Evaluation.** 2(0-4) F.  
Comparative judging including selection, grading, and classification of dairy cattle, or beef cattle, swine and sheep. May be repeated with permission for up to 4 semester hours. Variable Content Course.

**AGS 262 (AGR) Riding for Horse Training.** 2(0-4) F,S.  
Prerequisite: AGS 162 or permission of instructor. This is an intermediate-level riding course with a focus on developing skills necessary for training horses. Students may ride hunt seat, stock seat, or both seats during the semester. Students are responsible for transportation and payment of horse care fee. Course fee.

**AGS 301 (AGR) Physiology of Farm Animals.** 3(3-0) S.  
Prerequisite: AGS 101 and B10 102 and CHM 105. Basic physiology of farm animals with special emphasis on systems related to the economic importance of domestic animals such as the mammary, reproductive, endocrine, and other systems.

**AGS 302 (AGR) Reproductive Physiology.** 3(2-2) S.  
Recommended: AGS 101 and BIO 102. Physiological principles of reproductive processes in domestic animals (production and companion) including sperm and ova production, estrus, fertilization, gestation, and parturition.

**AGS 306 (AGR) Veterinary Science.** 3(3-0) F.  
Recommended: AGS 101. Functional anatomy, diseases and parasites of farm animals; sanitation; disease prevention and control.

**AGS 311 (AGR) Feeds and Feeding.** 3(3-0) F,S.  
Recommended: AGS 101 and MTH 135 or higher. Feed composition and formulation of livestock rations.

**AGS 316 (AGR) Animal Breeding.** 3(2-2) F.  
Recommended: AGS 101 and either MTH 102 or higher. Principles of heredity applied to the improvement of farm animals; variation, selection, inbreeding and crossbreeding.

**AGS 342 (AGR) Meat Science and Products.** 2(1-2) F.  
Recommended: AGS 101 and either CHM 105 or CHM 160. Processing, inspection, grading, preservation and nutritive value of meats and meat products.

**AGS 346 (AGR) Dairy Products.** 2(1-2) S.  
Recommended: AGS 101 and either CHM 105 or CHM 160. Processing, inspection, grading, preservation and nutritional value of dairy products.

**AGS 361 (AGR) Horse Management and Training.** 3(2-2) S,Su.  
Prerequisite: permission of instructor. Survey of management and basic training of horses. Structural anatomy, care of feet, unsoundness, and equipment and facilities are emphasized. Instruction in fitting for show or sale, practical horse psychology and training for basic performance is given. Sections available for secure riders and non-riders available.

**AGS 362 (AGR) Riding Instruction.** 2(0-4) S.  
Prerequisite: AGS 162 or permission of instructor. This is an advanced-level riding course with a focus on developing skills necessary for basic riding instruction. Students may ride hunt seat, stock seat, or both seats during the semester. Students are responsible for transportation and payment of horse care fee. Course fee.

**AGS 396 (AGR) Advanced Dairy and Meat Animal Evaluation.** 2(0-4) S.  
Recommended: AGS 196. Continuation of AGS 196 with special emphasis on comparative judging and giving of oral reasons. A variable content course; may be repeated for up to 4 semester hours.

**AGS 402 Applied Reproductive Techniques.** 2(1-2) F,S.

Recommended: AGS 302. Techniques of artificial insemination, pregnancy determination, semen processing and collecting, and embryo transfer. Planning and management for successful artificial breeding programs. Additional Saturday field trips may be required. Course Fee.

**AGS 432 (AGR) Sheep and Goat Science.** 2(2-0) D.

Recommended: AGS 311. Applications of the principles of nutrition, physiology and genetics to sheep and goat management. Wool and mohair production.

**AGS 442 (AGR) Swine Science.** 2(2-0) F.

Recommended: AGS 311. Applications of the principals of nutrition, physiology and genetics of swine management.

**AGS 446 (AGR) Dairy Production.** 3(2-2) FE.

Recommended: AGS 311. Efficient dairy farm enterprise organization, feed supplies, economical rations, breeding record analysis, labor-saving buildings and equipment, herd replacements, health and other management problems.

**AGS 451 (AGR) Poultry Science.** 3(3-0) F.

Recommended: AGS 101. Broiler production, market turkey production, egg production and processing of poultry products.

**AGS 452 (AGR) Beef Cattle Production.** 3(2-2) S.

Recommended: AGS 101. Production and management of purebred and commercial beef cattle.

**AGS 461 (AGR) Light Horse Production.** 3(3-0) S.

Recommended: AGS 101 and BIO 102. Breeding; housing; management of horses for pleasure and for profit.

**AGS 491 (AGR) Animal Science Senior Seminar.** 1(1-0) F,S.

Prerequisite: 90 hours and animal science major. Discussion and analysis of trends and developments in animal agriculture.

**AGS 492 (AGR) Problems in Animal Science.** 1-3, F,S.

Prerequisite: permission of instructor. Assigned investigations dealing with current problems in animal science supervised by an agricultural staff member. Student prepares outline, investigates the sources of information concerning the subject, and summarizes his findings in a written report. May be repeated with permission.

**AGS 511 (AGR) Animal Nutrition and Metabolism.** 3(3-0) S.

Recommended: AGR 300 or CHM 200 or CHM 310. Utilization and metabolism of nutrients by domestic animals; role of vitamins and minerals.

***The following courses are only open to graduate students.*****AGS 612 (AGR) Special Topics in Animal Science.** 1-3, D.

Prerequisite: permission of instructor. Special study in an identified area of animal science not treated in other courses. Recent advances and new research techniques will be discussed. May be repeated when topic varies up to 6 hours.

**AGS 616 (AGR) Mammalian Reproductive Physiology.** 3(3-0) S.

Recommended: AGS 302. Comparative anatomy and physiological processes of reproduction with an emphasis on domestic and laboratory animals. Fertilization through embryonic development, pregnancy, and growth to sexual maturity, reproductive efficiency and application of reproductive technology.

**Horticulture/Plant Science Courses****AGH 243 (AGR) Indoor Plants.** 2(2-0) S.

Identification, cultural requirements and growth habits of ornamental foliage and flowering plants for indoor use.

**AGH 303 (AGR) Suburban Horticulture.** 3(3-0) F.

Recommended: AGA 105 or BIO 102 or BIO 121. Horticultural concepts and their application to the growth and maintenance of fruit, vegetables and ornamentals common to most homes. Will not count toward Horticulture major or minor.

**AGH 323 (AGR) Floriculture.** 2(2-0) S.

Recommended: AGA 105 or BIO 102 or BIO 121. Production and management of greenhouse floriculture crops and herbaceous landscape plants.

**AGH 325 Herbaceous Plants.** 2(1-2) F.

Recommended: AGA 105 or BIO 102 or BIO 121. Nomenclature, identification and characteristics of herbaceous ornamental plants.

**AGH 333 (AGR) Landscape Design.** 3(2-2) F,S.

Theory and practice of landscaping including elementary design.

**AGH 343 (AGR) Vegetable Production.** 3(3-0) S.

Recommended: AGA 105 or BIO 102 or BIO 121. Methods and practices of home and commercial vegetable production.

**AGH 353 (AGR) Turf Management.** 3(3-0) S.

Recommended: AGA 105 or BIO 102 or BIO 121. The establishment, cultural maintenance, selection of cultivars and pest control relevant to lawn and turf grass.

**AGH 363 (AGR) Landscape Plants I.** 3(2-2) F.

Recommended: AGA 105 or BIO 102 or BIO 121. Identification, classification and adaptation of common trees, shrubs and groundcovers used for landscape purposes.

**AGH 393 (AGR) Fruit Culture.** 3(3-0) S.

Recommended: AGA 105 or BIO 102 or BIO 121. The culture and management of tree fruit, grapes, strawberries and other small fruit.

**AGH 403 (AGR) Nursery Management.** 3(2-2) S.

Recommended: AGH 363 or BIO 334 or BIO 339. General principles and practices involved in the commercial production, management, and marketing of landscape plants. Field trips required.

**AGH 443 (AGR) Greenhouse Management.** 3(2-2) S.

Recommended: AGH 323. Factors involved in site selection, construction, and management of greenhouses for the production of horticulture crops.

**AGH 483 (AGR) Diseases of Economic Plants.** 3(2-2) F.

Recommended: 9 hours of plant science. Plant diseases and physiological disorders of economic plants as seen in the environment.

**AGH 493 (AGR) Problems in Horticulture.** 1-3, F,S.

Prerequisite: permission of instructor. Assigned investigations dealing with current problems in horticulture supervised by an agricultural staff member. Student prepares outline, investigates sources of information concerning the subject, and summarizes his findings in a written report. May be repeated with permission.

**AGH 573 (AGR) Plant Propagation.** 3(2-2) F.

Recommended: either AGA 105 or BIO 121 and either CHM 105 or CHM 160. Practices employed by fruit and ornamental plant producers in propagation of plants, including seeds, cuttings, layerings, grafting and micropropagation.

***The following courses are only open to graduate students.*****AGH 630 (AGR) Advanced Topics in Plant Science.** (Identical to FRS 630) 3(3-0) F.

Prerequisite: permission of instructor. An advanced topic in plant science will be addressed via faculty lectures and student projects. Examples of proposed topics include: Improved Disease Resistance in Viticulture, and Application of Field Collected Data to Computer Analysis. May be repeated to a total of 6 hours with differing topics. Variable Content Course.

**AGH 653 (AGR) Plant Stress Physiology.** 3(3-0) D.

Prerequisite: permission of instructor. The effects of environmental stresses on plant physiological functions and plant growth, plus cultural methods to help plants adapt to stress.

**AGH 673 (AGR) Plant Growth Regulation.** 3(3-0) D.

Prerequisite: permission of instructor. The role of natural and synthetic plant hormones and related compounds in the growth, reproduction and cultivation of plants.

## Technology Education Courses

**AGT 416 Principles of Teaching Industrial Education.** 3(3-0) F. Prerequisite: EDC 150 and SEC 302 and 60 credit hours; and admitted to teacher education program or teacher certification. Instructional methods of attaining the objectives of technology education and vocational industrial technical education; design of individualized instruction and classroom and laboratory management; techniques of problem solving and applied critical thinking/decision-making; construction of tests; student evaluation; and use of visual aids. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take AGT 493 or AGT 494. May not be taken Pass/Not Pass.

**AGT 420 Technology Education for the Classroom.** 2(1-2) F. Prerequisite: AGT 416 or concurrent enrollment; EDC 150 and SEC 302 and 60 credit hours; and admitted to teacher education program or teacher certification. Techniques, constructional activities, instructional materials and critical thinking/problem solving activities used in teaching technology education in elementary and secondary schools. Credited only on B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take AGT 493 or AGT 494. May not be taken Pass/Not Pass.

**AGT 493 Supervised Teaching of Technology (Secondary) 5, S.** Prerequisite: completion of all method courses in Technology; and "C" or better grades in all professional education courses; and approval for student teaching. Student observes then teaches under the direction of the cooperating teacher and the university supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary). Cannot receive credit for both AGT 493 and SEC 493.

**AGT 494 Supervised Teaching of Technology (Secondary) 5-6, S.**

Prerequisite: AGT 493 or concurrent enrollment. Student observes then teaches under the direction of the cooperating teacher and the university supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Secondary) program. Students will be required to complete the work on the Professional Preparation portfolio which will be used as a portion of the course grade. Cannot receive credit for both AGT 494 and SEC 494.

**AGT 499 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing

the appropriate PRAXIS exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Students can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**AGT 521 Selection and Organization of Industrial Education.** 3(3-0) F. (Identical with AGV 521)

Prerequisite: AGT 416 or concurrent enrollment, AGT 420 or concurrent enrollment, or permission. Selection and arrangement of units to teach; preparation of informational and job assignments; selection, purchase and arrangement of laboratory equipment; dispensing of supplies and keeping of adequate records. Course typically taken in same semester as AGT 416 and AGT 420. Cannot receive credit for both AGT 521 and AGV 521.

## Wildlife Conservation and Management Courses

**AGW 143 (AGR) Introductory Forestry.** 3(3-0) F,S.

Introduction to field of forestry.

**AGW 351 (AGR) Game Bird Production.** 2(1-2) F.

Captive management of quail, pheasants and other gamebirds. Gamebirds will be raised in laboratory.

**AGW 496 (AGR) Wildlife Conservation Senior Seminar.** 1(1-0) F,S.

Prerequisite: 90 credit hours and Wildlife Conservation Major. Presentation, discussions and analysis of professional topics in Wildlife Conservation.

**AGW 513 (AGR) Insects Affecting Horticultural and Forestry Crops.** 3(1-4) F.

Prerequisite: permission of instructor. Identification, life histories and control methods of insects affecting gardens, ornamental plants, orchards and forests.

## Department of Applied Consumer Sciences

**Main Office:** 300 Park Central Office Building, Phone: 836-5136, FAX: 836-4341

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**Department Head:** Associate Professor Michele Granger, Ed.D.

**Associate Professors:** Dan Crafts, Ed.D.; Jeannie Ireland, Ph.D.; Debra McDowell, Ph.D.; Cheryl Mimbs, Ph.D.

**Assistant Professors:** Melanie Grand, M.S.Ed.; Thomas J. Kachel, M.S.; Marvel Maunder, Ph.D.

**Instructors:** Sandra L. Bailey, M.S.; Abigale S. Ehlers, M.S.Ed.; Jennifer J. Roberts, M.S.Ed.

**Emeritus Professors:** Edna Bell, Ph.D.; Willa Johnson, M.S.; Jacquelyn Ledbetter, M.S.; Loanna Thompson, Ph.D.; Joyce Waldron, Ed.D.

**Accreditation and Approvals:** Accreditation Commission for Programs in Hospitality Administration (ACPHA) – Hospitality and Restaurant Administration, (B.S.); American Association of Family and Consumer Sciences (AAFCS) – all programs; Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Vocational Family and Consumer Sciences, B.S.Ed. and M.S.Ed.

### Mission Statement

The Department of Applied Consumer Sciences provides education, scholarship, and service in the areas of human services and professional career education. Its vision centers on the study of housing, clothing, and hospitality as they relate to the physical, social, psychological, economic, aesthetic, and cultural perspectives of persons in the global community.

## Majors

### Clothing, Textiles and Merchandising (Comprehensive)

#### Bachelor of Science

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: PSY 121(3); ECO 155(3)
- B. Major Requirements – Grades of C or better are required in all lower division CTM classes in order to be admitted to the degree program.
  1. CFS 120(2) or 130(3); CFD 155(3) or 163(3); CTM 180(3), 187(3), 283(3), 289(3), 299(2), 381(3), 388(3), 480(3), 482(3), 499(4), 583(3)
  2. Related Requirement: MKT 350(3)
  3. Complete the courses listed below for your chosen area of specialization.
    - a. **Fashion Design and Product Development:**  
CTM 185(3), 280(3), 286(3), 380(3), 387(3), 580(3)
    - b. **Fashion Merchandising and Management:**  
ACC 201(3); CTM 384(3), 485(3), 585(3); MKT 351(3); and select 3 hours of business electives from ACC, CIS, FGB, RIL, IDM, MGT, MKT, and QBA
  4. In consultation with your advisor and according to specific career interests, select additional elective hours to bring total upper division hours to 40 and total hours overall to 125.
- C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Hospitality and Restaurant Administration (Comprehensive)

#### Bachelor of Science

The mission of the Hospitality and Restaurant Administration program is to enhance the University mission of public affairs by producing

educated persons who will make a contribution to the hospitality industry and society as a whole.

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements:  
CHM 105(5) or 107(4); PSY 121(3); SOC 150(3)
- B. Major Requirements
  1. CFD 155(3); CFS 130(3), HRA 210(3), 215(3), 218(3), 299(2), 308(3), 310(3), 321(3), 329(3), 331(3), 354(3), 409(3), 410(3), 426(3), 428(3), 430(3), 436(3), 440(1), 499(6)
  2. Related Requirements: MKT 150(3) or 350(3)
- C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Housing and Interior Design (Comprehensive)

#### Bachelor of Science

- A. General Education (see General Education section of catalog) Specific General Education Requirement: CHM 105(5)
- B. Major Requirements
  1. CFD 155(3) or 163(3); CTM 283(3); HID 140(3), 241(3), 245(3), 247(3), 307(3), 332(3), 340(3), 342(3), 344(3), 345(3), 346(3), 349(3), 424(3), 441(3), 499(4-6)
  2. In addition to the above, the student must complete 8 hours from the following: HID 145(2), 305(2), 306(2), 343(3), 347(3), 348(3), 442(3)
  3. Portfolio review prior to completion of degree program. Based on GPA, skills shown on projects, and interest shown in the program, students will be evaluated as to whether to continue in the program.
  4. Related Requirements: ART 100(3), 101(3), plus enough hours from the following electives to equal 125 total hours: ACC 201(3); AGH 243(2), 333(3); ART 115(3), 210(3), 226(3), 235(3), 255(3), 271(3), 272(3), 483(3), 484(3); DES 210(3), 300(3); MKT 350(3), 352(3), 355(3); IDM 110(3), 121(3), 211(3), 221(3), 321(3); THE 150(2), 250(2), 255(2)
- C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

## Vocational Family and Consumer Sciences

### Bachelor of Science in Education (Certifiable grades Birth-12)

- A. General Education (see General Education section of catalog) Specific General Education Requirements: PSY 121(3); CFD 155(3); CHM 105(5); BIO 102(4) or 121(4) or BMS 110(4); SOC 150(3)
- B. Major Requirements: CFD 155(3), 160(3), 163(3), 260(3); CFS 120(2), 130(3) or BMS 240(3), CFS 335(2), 373(3), 472(3), 507(1); CTM 180(3), 283(3); HID 140(3), 145(2) or 241(3); HRA 321(3)
- C. Professional Education courses: CFS 493(5-6), 494(5-6), 512(3), 515(3) and see "Academic Programs and Requirements/Secondary Education" section of catalog
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### Health Education (Certifiable grades 9-12)

Students who complete the Bachelor of Science in Education degree with a major in Vocational Family and Consumer Science may receive Missouri state certification in Health Education grades 9-12 by completing the following courses: BMS 307(4) or PED 250(3), BMS 308(4) or PED 252(3), or equivalents; CFD 163(3); CFS 130(3) or BMS 240(3); PED 253(2), 256(2), 257(2), 358(3); PSY 101(3); SWK 330(3); plus additional hours of electives in health-related courses, in consultation with their advisor, to bring total to 30 hours. In order to meet Missouri state teacher certification requirements, student must have at least a 2.50 GPA in the certificate subject area which includes all courses listed above.

## Minors

### General Consumer and Family Studies

#### Bachelor of Arts

Select 15 hours from: CFD 160(3), 163(3); CFS 130(3); CTM 180(3), 283(3); HID 140(3); HRA 321(3)

### General Consumer and Family Studies

#### Bachelor of Science

#### Bachelor of Science in Education

#### (Non-Certifiable)

Select 24 hours from: CFD 163(3); CFS 130(3); CTM 180(3), 283(3); HID 140(3); HRA 321(3), plus additional electives to bring total to at least 24 hours.

### Housing and Interior Design

#### Bachelor of Arts

#### Bachelor of Science

Select 18 hours, with approval of an HID advisor, from: HID 140(3), 145(2), 241(3), 247(3), 305(2), 306(2), 340(3), 342(3), 343(3), 344(3), 345(3), 346(3), 347(3), 348(3), 349(3), 441(3), 442(3); CFS 302(1-3), 502(1-3); CTM 283(3)

## Graduate Programs

The Master of Science in Education degree (secondary education major) offers an area of emphasis in Vocational Family and Consumer Sciences and the Master of Natural and Applied Science degree offers an area of emphasis in Applied Consumer Sciences. See the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Consumer and Family Studies Courses

### CFS 120 Family Health. 2(1-2) F,S.

Current trends in family health care and home nursing care; practice in the laboratory.

### CFS 130 (FNT) Essentials of Nutrition. 3(3-0) F,S.

Fundamental principles of nutrition and diet for physical fitness. Dietary needs of age group. Cultural aspects of nutrition. A grade of "C" or better is required in this course in order to take BMS 363. This course may not be taken Pass/Not Pass.

### CFS 197 Introductory Topics in Applied Consumer Sciences. 1-3, D.

Variable content course for introductory concepts in Consumer and Family Studies. May be repeated to a total of 6 hours when topics change.

### CFS 299 Work Experience 2(0-4) F,S.

Prerequisite: permission of subject matter professor or coordinator. Students will secure positions in their area of specialization in order to gain work experience. This practicum is usually scheduled between their freshman, and sophomore years. Working in a coordinated program the student will be evaluated by both the company supervisor and the practicum coordinator. Besides work experience, the student can be expected to gain in career direction as well as in the application of the principles and practices of their respective specialization. 200 minimum work hours.

### CFS 300 Special Topics in Applied Consumer Sciences. 1-3, D.

Prerequisite: permission. Selected topics of contemporary interest in Consumer and Family Studies, offered when resources and demand allow. May be repeated to a total of 6 hours when topics change. Variable Content Course.

### CFS 302 Applied Consumer Sciences Study Tour. 1-4, D.

Prerequisite: permission. Study of mills, factories, stores, hospitals, laboratories, hospitality facilities, museums, design studios, historic sites, and/or trade markets, and not-for-profit agencies.

### CFS 303 Service Learning Applied Consumer Sciences. 1 F,S.

Prerequisite: 30 hours and concurrent registration in a designated service learning offering within one of the major areas of study in the Consumer and Family Studies Department. A service learning course incorporates a community service experience with classroom instruction to provide an integrative learning experience which addresses the practice of citizenship and promotes an awareness of and participation in public affairs/service. Requires 40 hours of service to a community organization, agency, or public service provider. The community service placement and assign-



ment will vary, depending on the specialization area and learning objectives. A list of approved placements will be available from the instructor and the Citizenship and Service Learning Office. Students are required to participate in a service learning training session(s) prior to beginning their service placement. May be repeated but no more than 2 hours of service learning credit may count toward graduation.

**CFS 335 Presentation Techniques.** 2(1-2) F,S.

Prerequisite: COM 115 and 60 hours or permission. Planning and presenting techniques for teaching in the classroom, business, industry, or extension settings. A focus on professional presentation strategies incorporating the use of multimedia technology.

**CFS 373 Family Economics.** 3(3-0) F,S.

Family as a consumer unit, its financial well-being and interrelationship with the market and the economy. Recommended: ECO 155.

**CFS 400 Problems in Applied Consumer Sciences.** 1-3, D.

Prerequisite: 90 hours and permission. Independent study for those who wish additional work in specific subject areas.

**CFS 472 Resource Management Theory and Practicum.** 3(2-2) F.

Prerequisite: CFD 163 and CFS 373 or permission. Study of family and individual resource management concepts and application of resource management principles and techniques with emphasis on group dynamics and problem solving.

**CFS 477 Seminar in Home Management and Family Economics.** 2(0-2) S.

Prerequisite: senior standing in area specialization or permission. Readings, discussion and analysis of trends and developments in home management and family economics.

**CFS 493 Supervised Teaching in Vocational Family and Consumer Sciences.** 5-6 F,S.

Prerequisite: completion of CFS 512 method course with a grade of C or better; a grade of "C" or better in all professional education courses; passing score in specialty area Praxis II exam; approval for student teaching. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Vocational Family and Consumer Sciences). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**CFS 494 Supervised Teaching in Vocational Family and Consumer Sciences.** 5-6 F,S.

Prerequisite: CFS 493 or concurrent enrollment. Student observes, then teaches under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credited only on B.S. in Education (Vocational Family and Consumer Sciences). Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade.

**CFS 498 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate Praxis II exam and completion of portfolio checkpoints 1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MD 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**CFS 499 Internship in Applied Consumer Sciences.** 1-6, D.

Prerequisite: permission of subject matter professor. Off-campus, supervised experience in a cooperative program with business, government, community, or related establishments within any of the specialized areas of consumer and family studies. In addition to the outline agency involvement, the student is (1) required to attend a beginning orientation and a follow-up seminar, and (2) complete assignments appropriate to subject matter specialization. May be repeated up to 12 hours credit.

**CFS 500 Issues in Applied Consumer Sciences.** 1-3, D.

Prerequisite: senior or graduate standing or permission. Advanced inquiry into specialized areas of study in Consumer and Family studies such as: Blended Families, Historic Building Preservation, Textile Conservation, Preservation Techniques, Advanced Culinary Techniques, and International Trends in Hospitality. May be repeated to a total of 6 hours when topics change. Variable Content Course.

**CFS 502 Study Tour.** 1-3, D.

Prerequisite: junior or senior classification or permission. Study of and/or visits to mills, factories, stores, museums, hospitals, laboratories, design studios and/or trade markets. Course fee may be assessed – see schedule.

**CFS 507 Student Organizations in Vocational Family and Consumer Sciences.** 1(1-0) F.

Prerequisite: CFS 335 and concurrent enrollment in CFS 512 or permission of instructor. Methods of organizing student groups in Family and Consumer Sciences and occupational Family and Consumer Sciences programs, techniques of working with students in individual and group projects; leadership training.

**CFS 512 Teaching Family and Consumer Sciences.** 3(2-2) F.

Prerequisite: CFS 335 and concurrent enrollment in CFS 507 or permission of instructor; and admitted to teacher education program. An overview of the philosophy and history of family and consumer sciences education; includes curriculum building with emphasis on critical thinking and reflective decision-making, problem-based learning, and the development of authentic assessments. Includes the planning of lessons, units, and development of teaching materials in the family and consumer sciences discipline and practice implementation of such lessons. Completion of checkpoint II for the Professional Portfolio is a component of this course. Credited only on B.S. in Education (Vocational Family and Consumer Sciences). A grade of "C" or better is required in this course. May not be taken Pass/Not Pass.

**CFS 515 Organization of Occupational/Vocational Programs.** 3(2-2) S.

Prerequisite: CFS 507 and CFS 512 or permission of instructor; and admitted to teacher education program. Investigation of the organization and administration of occupational and vocational family and consumer sciences programs; identification of types of programs; program planning, program evaluation and vocational counseling with emphasis on critical thinking and reflective decision-making. Credited only on B.S. in Education (Vocational Family and Consumer Sciences). A grade of "C" or better is required in this course. May not be taken Pass/Not Pass.

*The following courses are open only to graduate students.*

**CFS 601 Supervision of Student Teachers in Family and Consumer Sciences.** 3(3-0) D.

Prerequisite: teaching experience in Family and Consumer Sciences. Experiences in creating an environment that will encourage Family and Consumer Sciences student teachers to realize their potentials and gain competence in teaching.

**CFS 695 Advanced Technical Practice.** 3, D.

Prerequisite: permission. Work in CAD, EDI, Child Life, Mental Health, Hospitality, clinical hospitals, schools, manufacturing, retailing, and/or other settings. Ninety clock hours required.

**CFS 696 Practicum.** 4(0-8) D.

Prerequisite: permission. The assumption of responsibilities at an approved practicum site under the direction of a professor and practicum site supervisor.



## Clothing, Textiles, and Merchandising Courses

**CTM 180 Apparel Selection and Construction Techniques.** 3(1-4) F,S.

Apparel construction techniques using commercial patterns. Emphasis on fitting different body forms.

**CTM 185 Apparel Construction II.** 3(2-2) F.

Prerequisite: C grade or better in CTM 180. Advanced apparel construction techniques with an industry perspective.

**CTM 187 (287) Survey of the Global Fashion Industry.** 3(3-0) F,S.

Overview of the global fashion industry from textile production to the retail level. Career options in the fashion industry are highlighted.

**CTM 280 Pattern Development I.** 3(2-2) F,S.

Prerequisite: C grade or better in CTM 185 and CTM 289. Fundamental concepts of flat pattern and draping design techniques to develop original garments for the sportswear/career wear industries. Designing apparel for both children and adults incorporated in this beginning design course.

**CTM 283 Textile Science.** 3(3-0) F,S.

Study of fibers, yarns, fabrics, and finishes as they pertain to both residential/commercial fabrics and apparel textiles.

**CTM 286 Computer Aided Pattern Making.** 3(2-2) S.

Prerequisite: C grade or better in CTM 280. Introduction to the principles and techniques of computer pattern making. Orientation to the CAD system in block manipulation, grading, and marker making.

**CTM 289 Foundations of Product Development.** 3(3-0) F,S.

Prerequisite: C grade or better in CTM 187. An examination of the design, manufacture and marketing of products in today's global economy.

**CTM 299 Work Experience.** 2(0-4) F,S.

Prerequisite: CTM 187 and permission. Students will secure positions in their area of specialization in order to gain work experience. Working in a coordinated program the student will be evaluated by both the company supervisor and the practicum coordinator. In addition to work experience, the student can be expected to gain career direction as well as experience in the application of the principles and practices of their respective specializations. The student must work a minimum of 100 hours, complete the student manual, and earn a satisfactory evaluation from the internship host.

**CTM 300 Special Topics in Clothing, Textiles, and Merchandising.** 1-3, D.

Prerequisite: permission of department head. Selected topics of contemporary interest in clothing, textiles, and merchandising. Offered when resources and demand allow. May be repeated for a total of 6 hours when topics change. Variable Content Course.

**CTM 302 Clothing, Textiles, and Merchandising Study Tour.** 1-3, D.

Prerequisite: permission of department head. Study of and visits to museums, design studios, historic sites, trade shows, conferences, and conventions related to the fashion industry. May be taken for a total of 6 hours.

**CTM 380 Pattern Development II.** 3(2-2) F.

Prerequisite: C grade or better in CTM 286. Creation of garments using draping techniques, advanced flat pattern and an introduction to pattern drafting. Product development by problem solving. Exploration of a variety of merchandise classifications. Knock-offs and fabric functions analyzed.

**CTM 381 (281) Advanced Product Development.** 3(3-0) F.

Prerequisite: C grade or better in CTM 180 and CTM 289. Direct application of building a product line from specifications and sample development through the production process and distribution channels.

**CTM 384 Fashion Promotion.** 3(2-2) S.

Prerequisite: C grade or better in CTM 187. An experiential based fashion experience that provides opportunities to develop various forms of fashion productions and promotions. May be repeated for up to 6 hours.

**CTM 387 Fashion Illustration.** 3(2-2) S.

Prerequisite: C grade or better in CTM 187. Creation of fashion flats and specification sheets. Students gain the technical ability to translate a creative idea into a working blueprint.

**CTM 388 Problem-Solving and Negotiation Techniques in Fashion Merchandising.** 3(3-0) F.

Prerequisite: C grade or better in CTM 187 and CTM 299. The planning, buying, selling, and promotion of apparel and accessories on all levels of the fashion industry. Case studies include merchandising mathematics, product development, vendor relations, negotiation strategies, and conflict management.

**CTM 400 Problems in Clothing, Textiles, and Merchandising.** 1-3, D.

Prerequisite: 90 hours or permission of department head. Independent study for those who wish additional work in specific subject areas.

**CTM 480 Global Perspectives of Historic Costume.** 3(3-0) F.

Prerequisite: C grade or better in CTM 187. The study of apparel and fashion accessories from the beginning of time to the present. An analysis of global cultural forces that parallel social, economic, political and technological influences on fashion trends will be examined to determine impact.

**CTM 482 Senior Seminar.** 3(3-0) F.

Prerequisite: senior standing in area specialization or permission. Analysis of current and future trends and developments in apparel and textiles. Career entry preparation via juried senior portfolio review.

**CTM 485 Fashion Merchandise Planning.** 3(3-0) S.

Prerequisite: C grade or better in CTM 289 and junior standing. This course will familiarize students with the terminology, fundamental principles and techniques of merchandising calculations.

**CTM 499 Internship in Fashion.** 4(0-8) Su.

Prerequisite: junior standing and permission. Supervised experience in a preapproved internship program in either Product Development or Merchandising. The student must work a minimum of 200 hours, complete the student manual, earn a satisfactory evaluation from the internship host, and present a summary to their peers.

**CTM 580 Senior Collection: Line Development.** 3(1-4) S.

Prerequisite: C grade or better in CTM 380. Production of an apparel line from the conceptualization to the construction of sample garments. Three to five garments required in the student designer's line.

**CTM 583 Product Performance Evaluation.** 3(2-2) S.

Prerequisite: CHM 105 or CHM 107 or CHM 160; and C grade or better in CTM 283. Testing and analysis of textile products to determine quality, performance, use, and serviceability.

**CTM 585 Establishing a Fashion Business.** 3(3-0) S.

Prerequisite: C grade or better in CTM 289 and CTM 388 and CTM 485; or permission. Entrepreneurial concepts of opening a business through the development of a business plan.

*The following course is open only to graduate students.*

**CTM 682 Graduate Seminar in Clothing and Textiles.** 2(2-0) S.

Prerequisite: 12 hours of graduate credit or permission. Selected topics in clothing and textiles that involve the areas of apparel manufacturing, fashion merchandising, and management trends are systematically explored through critical analysis of literature and through an individual research project. May be repeated for credit. A total of 4 hours may be applied to a degree program.

## Housing and Interior Design Courses

**HID 140 Fundamentals of Interior Design.** 3(2-2) F,S.

Art principles and elements applied to interior environments. Projects will expose the student to interior design skills with individual projects focusing on each student's major.

**HID 145 (CFS) Introduction to Housing.** 2(2-0) S.

Survey of the historical development of housing and socioeconomic aspects of housing in relation to individual and family living. Analysis of interior space for individual and family living with emphasis on economic considerations and predictions for the future.

**HID 241 (CFS) Residential Design I.** 3(2-2) F,S.

Prerequisite: HID 140 or permission. The design of a residence including the drawing of floor plans and the study of both structural and decorative aspects.

**HID 245 Interior Design Specifications.** 3(2-2) F.

Prerequisite: HID 140 and General Education math requirement; or permission. Measuring for and specifying of interior materials, upholstery, flooring materials, wall coverings, and window treatments. An examination of materials, installation, and maintenance techniques are coupled with creative design exercises.

**HID 247 (CFS) Presentation Techniques.** 3(1-4) S.

Perspective techniques utilizing a variety of media. Three-dimensional models used to demonstrate various means of delineating interior spaces. Portfolio development will be encouraged.

**HID 300 Special Topics in Housing and Interior Design.** 1-3, D.

Prerequisite: permission of department head. Selected topics of contemporary interest in housing and interior design. Offered when resources and demand allow. May be repeated for a total of 6 hours when topics change. Variable Content Course.

**HID 302 Housing and Interior Design Study Tour.** 1-3, D.

Prerequisite: permission of department head. Study of and visits to museums, international hospitality tours, historic sites, trade shows, conferences, and conventions related to the interior design industry. May be taken for a total of 6 hours.

**HID 305 (CFS) Restaurant Design.** 2(1-2) F.

Prerequisite: HID 140 or permission. The interior design of lounges and public dining facilities ranging from table service restaurants to fast food facilities will be covered in readings, projects and field trips.

**HID 306 (CFS) Hotel Design.** 2(1-2) FE.

Prerequisite: HID 140 or permission. The interior design of guest lodging facilities from urban hotels to resorts is covered through readings, projects and field trips. Both new and remodeled facilities are examined.

**HID 307 CAD for Interior Design.** 3(2-2) F,S.

Prerequisite: HID 140 and HID 241; and CIS 101 or CSC 101 of CSC 111. Study and use of AutoCAD software to design a structure. Both 2- and 3-dimensional aspects are covered. Design project required.

**HID 308 Advanced AutoCAD.** 3(3-0) D.

Prerequisite: HID 307. Further study and use of AutoCAD for interior designers with an emphasis on blocks, Xrefs, and 3D drawings. Specialized lighting techniques and backgrounds included. Project required.

**HID 332 Color and Light in Interior Design.** 3(2-2) S.

Prerequisite: HID 140 or permission. A study of the properties and interrelationship of color and light. Uses of color, light, types of lighting and fixtures, and the measuring and control of light are covered. Design projects required.

**HID 340 (CFS) Residential Design II.** 3(2-2) S.

Prerequisite: HID 241 and HID 247 and portfolio review or permission. Design of a residence including sound conditioning, luxury features, furnishing, accessories, and interiors using innovative materials and products.

**HID 342 (CFS) Contract Design I.** 3(1-4) S.

Prerequisite: HID 241 and HID 247 and portfolio review or permission. Professional interior design study involving problem solving, exploration of resources and client presentation in the design of offices and public building spaces. An office design project is required.

**HID 343 (CFS) Retail Design and Display.** 3(2-2) F,S.

Prerequisite: HID 140 or permission. Design from store planning to merchandise display will be covered through readings, projects and field trips. Team visual merchandising projects and an individual store design required.

**HID 344 (CFS) 19th and 20th Century Furniture and Decorative Arts.** 3(3-0) D.

Prerequisite: 60 hours or permission. An overview of interiors, furnishings, accessories, and related structure design during the 19th and 20th centuries in Western Europe and the United States.

**HID 345 (CFS) Housing and Environmental Living.** 3(3-0) F.

Prerequisite: HID 140. Economic and social aspects of designing an environment for contemporary living.

**HID 346 (CFS 244) Ancient and Medieval Furnishings and Decorative Arts.** 3(3-0) D.

Prerequisite: 60 hours or permission. An overview of interiors, furnishings, accessories, and related structure design from ancient civilizations through the Middle Ages in Western Europe.

**HID 347 (CFS) Advanced Presentation Techniques.** 3(1-4) F.

Prerequisite: HID 241 and HID 247 and portfolio review. Continuation of development of visual communication skills to delineate interior spaces. Projects require advanced detail and complexity.

**HID 348 Furniture for Interior Design.** 3(3-0) SE.

Prerequisite: HID 140 and HID 344 and; either HID 346 or 349; and General Education Basic Required Courses; or permission. Overview of residential and commercial furniture resources, selling techniques, and furniture specifications. Project required with an emphasis on written and oral skills.

**HID 349 (CFS) Renaissance Furnishings and Decorative Arts.** 3(3-0) D.

Prerequisite: 60 hours or permission. An overview of interiors, furnishings, accessories, and related structure design from the Renaissance through the 18th century in Western Europe and the United States.

**HID 400 Problems in Housing and Interior Design.** 1-3, D.

Prerequisite: 90 hours or permission of department head. Independent study for those who wish additional work in specific subject areas.

**HID 424 (CFS) Seminar in Housing and Interior Design.** 3(3-0) S.

Prerequisite: senior standing in area specialization or permission. Study the professional principles of interior design. Prepare for seeking employment in interior design - portfolio preparation, resume development, employer search, senior exhibition or show. Project will include a study problem for the National Council on Interior Design Qualification examination.

**HID 441 (CFS) Senior Design Studio.** 3(1-4) S.

Prerequisite: HID 340 or HID 442, senior standing, and portfolio review; or permission. Professional interior design problems including work with and presentation to clients.

**HID 442 (CFS) Contract Design II** 3(1-4) FO.

Prerequisite: HID 342 or permission. Professional interior design study involving problem solving, exploration of resources and client presentation, health care facilities, institutions, and advanced office design are included.

**HID 499 Internship in Housing and Interior Design.** 1-6, D.

Prerequisite: permission of department head. Off-campus, supervised experiences in a cooperative program with an interior design firm. The student is required to attend a beginning orientation, maintain short weekly visits with their faculty advisor, attend a follow-up seminar and complete the assigned academic work and project appropriate to the experience. The student must work a minimum of 180 hours for a 4 credit internship and a minimum of 270 hours for a 6 credit internship.

## Hospitality and Restaurant Administration Courses

**HRA 210 ( 238) Introduction to Hospitality Leadership.** 3(3-0) F,S.

This course is designed to examine the leadership processes, concepts, and principles and to improve personal competence in decision-making, problem solving, motivation, and communication as they relate to the hospitality industry.

**HRA 215 (CFS) Introduction to Lodging Management.** 3(3-0) F,S.

Prerequisite: HRA 210 or permission. A study of the fundamentals of how lodging operations are managed from a rooms perspective. Practical examples are used to familiarize students with the line management aspects of reservations, registration, occupancy, and checkout and the settlement procedures in various lodging market segments.

**HRA 218 Safety and Sanitation.** 3(3-0) F,S.

Prerequisite: HRA 210. Introduction to food service sanitation and safety practices pertinent to hospitality management. Emphasis on sanitation requirements, safe food handling, storage practices and accident prevention.

**HRA 299 Work Experience.** 2(0-4) D.

Prerequisite: HRA 210; and HRA 215 or HRA 218; and permission. Students will secure positions in their area of specialization in order to gain work experience. Working in a coordinated program the student will be evaluated by both the company supervisor and the practicum coordinator. In addition to work experience, the student can be expected to gain career direction as well as in the application of the

principles and practices of their respective specialization. The student must be paid for the work experience and must work a minimum of 250 hours.

**HRA 300 Special Topics in Hospitality and Restaurant Administration.** 1-3, D.

Prerequisite: permission of program director. Selected topics of contemporary interest in hospitality and restaurant administration. Offered when resources and demand allow. May be repeated for a total of 6 hours when topics change. Variable Content Course.

**HRA 302 Hospitality and Restaurant Administration Study Tour.** 1-3, D.

Prerequisite: permission of program director. Study of and visits to museums, international hospitality tours, historic sites, trade shows, conferences, and conventions related to the hospitality industry. May be taken for a total of 6 hours.

**HRA 308 Housekeeping Administration.** 3(3-0) F,S.

Prerequisite: HRA 210 and HRA 215; or permission. Fundamental duties of executive housekeepers, the organization of the housekeeping department and its relationship to other departments in the Hospitality industry. Study of the selection of equipment, cleaning materials and procedures, employee turnover, recruitment and retention.

**HRA 310 (CFS) Financial Management for the Hospitality Industry.** 3(3-0) F,S.

Prerequisite: HRA 210 and HRA 215; or permission. Financial techniques in forecasting, budgeting, performance measurement, and applying the hospitality industry uniform system of accounts are covered during this course. The control of hospitality operational income and expenses will be carefully studied, monitored and analyzed.

**HRA 321 (CFS) Principles of Food Preparation.** 3(1-4) F,S.

Prerequisite: CHM 105 or CHM 107 or CHM 160; HRA 218 or BIO 210. Scientific principles and techniques in the selection, preparation and preservation of food.

**HRA 325 Cultural Cuisine.** 1-3, D.

Prerequisite: permission of instructor. A course designed to extensively explore various cultures through a hands-on culinary experience. May be repeated for a total of 6 hours.

**HRA 329 (CFS) Quantity Food Production.** 3(1-4) F, S.

Prerequisite: HRA 210 and HRA 218 and HRA 321. Emphasis on methods to achieve qualitative standards in quantity food production. Laboratory arranged. Transportation required.

**HRA 331 (CFS) Dining Service Management.** 3(3-0) F,S.

Prerequisite: HRA 210 and HRA 218 and HRA 299 and HRA 321 and HRA 329. This course provides students with practical skills and knowledge for effective management of food and beverage service in outlets ranging from coffee shops to room service, catering and upscale dining rooms. Presents basic service principles while emphasizing the special needs of the guests.

**HRA 354 Hospitality Human Resource Development.** 3(3-0) F,S.

Prerequisite: HRA 210 and HRA 215 and HRA 299. Study of concepts and applications of interpersonal skills as it relates to the hospitality industry; communication; leadership styles; product enhancement; labor market shortage; conflict resolution; recruitment, training and retention.

**HID 400 Problems in Housing and Interior Design.** 1-3, D.

Prerequisite: 90 hours or permission of department head. Independent study for those who wish additional work in specific subject areas.

**HRA 409 (309) Beverage Operations.** 3(3-0) F,S.

Prerequisite: HRA 299 and HRA 321 and HRA 329 and senior standing, or permission. Principles and methods of operating a profitable beverage component in a foodservice business. Topics range from inventory control, accounting, equipment, pricing, to legal responsibility and liability.

**HRA 410 (CFS) Marketing of Hospitality Services.** 3(3-0) F,S.

Prerequisite: HRA 210 and HRA 215 and HRA 299 and MKT 150 or MKT 350. The course is designed to provide the student with basic knowledge and practical experience which will enable them to develop strategic marketing plans for hotel/motel properties.

**HRA 426 (CFS) Management by Menu.** 3(3-0) F,S.

Prerequisite: HRA 210, 215, 218, 299, 321, 329, 331, 354, 410; and MKT 150 or MKT 350. A continuation of the student's familiarization with food service components in the hospitality/food service industry. Menu, planning, pricing, food service accounting, wage and labor cost control, purchasing, portion control, advertising, salesmanship and other food service principles, practices and techniques are analyzed.

**HRA 428 Hospitality Law.** 3(3-0) F,S.

Prerequisite: HRA 210, 215, 218, 299, 329, 354, 409, 410; and MKT 150 or MKT 350. The study of the legal aspect of lodging and food service operations. Problem-solving approach applied to liability and litigation problems confronting hospitality executives.

**HRA 430 Hotel Convention and Conference Operations.** 3(3-0) F,S.

Prerequisite: HRA 210, 215, 218, 299, 329, 354, 410; and MKT 150 or MKT 350. In-depth analysis of management problems involved in selling and servicing group sales; labor-management relations.

**HRA 435 Restaurant Management.** 3(1-4) F,S.

Prerequisite: HRA 329 and HRA 331 and permission. This course is designed to allow students to experience the step-by-step process of operating "Carrie's" Restaurant in the Professional Building. Students will design the menu, prepare and serve the food and market the restaurant. In addition, students may participate in the planning and execution of various special events in the program. May be repeated to a total of 6 hours.

**HRA 436 Casino Operations.** 3(3-0) F,S.

Prerequisite: HRA 354 and HRA 409 and HRA 410 and HRA 426. This course provides an overview of the gaming industry with an emphasis on casino hotel operations as an integral part of the hospitality industry. Topics include the history of gaming, casino layout and design, surveillance, demographic profiles, psychological profiles, and economic impact.

**HRA 438 Casino Operations II.** 3(3-0) F,S.

Prerequisite: HRA 436 and permission of instructor. This course provides an in-depth study of managing the table games in a casino, learning the rules and regulations, and how to conduct play.

**HRA 440 (423) Seminar in Hospitality/Restaurant Administration.** 1(1-0) F,S.

Prerequisite: graduating senior in the area of specialization or permission. Readings, discussion and analysis of trends and developments in hospitality and restaurant industries.

**HRA 499 Internship in Hospitality.** 6(0-12) D.

Prerequisite: HRA 210 and HRA 215 and HRA 218 and HRA 299 and HRA 321, and permission. Supervised experience in a cooperative program in hospitality. Student must gain experience/exposure in at least 3 positions during the internship. The student must be paid for the internship and must work a minimum of 450 hours. May be repeated up to 12 credit hours.

## Department of Fruit Science

Missouri State Mountain Grove Research Campus, 9740 Red Spring Road, Mountain Grove, MO 65711,  
Phone: 417/926-4105, FAX: 417/926-6646  
Email: FruitScience@missouristate.edu

**Department Head:** Professor Innocent C. Onwueme, Ph.D.

**Research Professor:** Martin L. Kaps, Ph.D.

**Associate Research Professors:** Karl L. Wilker, Ph.D.; Lazslo G. Kovacs, Ph.D.

**Assistant Research Professors:** Wenping Qiu, Ph.D.; Daniel E. Waldstein, Ph.D.

**Post Doctoral/Research Associate:** Raymond W.M. Fung, Ph.D.

**Research Associate:** John D. Avery, Jr., M.S.

**Horticulture Outreach Advisor:** Marilyn B. Odneal, M.S.

**Grower Advisor:** Patrick L. Byers, M.S.

**Emeritus Research Professor:** James F. Moore, Jr., Ph.D.; Howard G. Townsend, Jr., Ph.D.

### State Fruit Experiment Station

The State Fruit Experiment Station is operated in conjunction with the Department of Fruit Science on the Mountain Grove Campus. The Station has a statewide mandate by law to generate knowledge through research, and to disseminate this knowledge for the economic development of the Missouri fruit industry. In addition to carrying out research, conducting advisory education programs, and teaching courses, the faculty are available to guide graduate students in their thesis research. The department head of Fruit Science also serves as the Director of the State Fruit Experiment Station.

Research is carried on in pomology, enology, viticulture, plant pathology, entomology, molecular genetics, and plant physiology. The fruit crops under investigation include apples, grapes, blueberries, peaches, strawberries, blackberries, and raspberries, as well as species of lesser economic importance. Information derived from the Station's research is disseminated through advisory programs to fruit growers and processors throughout Missouri.

The Station is the site of extensive testing of new fruit varieties and selections for their adaptability to Missouri soil and climate and resistance to diseases. Research on the culture of fruit crops is carried out on nutrient and water requirements, pruning and training systems, growth regulators, and rootstocks. Plant pathogens and insect pests are studied for clues which may help in reducing their damage to fruit crops. A program in genetic engineering has the improvement of fruit varieties as the major goal.

### Graduate Program

The Master of Science degree offers a major in Plant Science and the Master of Natural and Applied Science degree offers an emphasis area in Fruit Science. See the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the master's degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Fruit Science Courses

**FRS 121 Introduction to Wine.** 2(2-0) S.

An introduction to wine in the modern world. History, classification, production and the geography of wine. The basics of wine appreciation will also be examined.

**FRS 193 Internship in Plant Science.** 1-3, D.

Prerequisite: permission of department head. Supervised work experience at the State Fruit Experiment Station involving selected research and/or advisory projects. A written report and an oral examination are required.

**FRS 401 Pomology.** 3(3-0) S.

The course will emphasize the production and management of perennial fruit crops which are adapted to a temperate zone climate. The crops include apple, peach, grape, blueberry, blackberry, raspberry, and strawberry. The physiology of plants as a response to production practices, and recent technology as it applies to fruit production will be addressed. May be taught concurrently with FRS 601. Students cannot receive credit for both FRS 401 and FRS 601.

**FRS 411 Viticulture.** 3(3-0) S.

The course will emphasize the production and management of Vitis species which are adapted to a temperate zone climate. The physiology of grapevines as a response to production practices, and recent technology as it applies to vineyard production will also be addressed. May be taught concurrently with FRS 611. Students cannot receive credit for both FRS 411 and FRS 611.

**FRS 493 Internship in Fruit Science.** 1-5, D.

Prerequisite: permission of department head. Supervised work experience either at the Fruit Experiment Station or in the commercial fruit production and/or processing industry. A paper analyzing some major aspect or aspects of the work experience as related to fruit production and/or processing is required.

**FRS 496 Independent Study in Fruit Science.** 1-3, D.

The student, with the approval of the instructor, conducts an in-depth literature review and writes a paper on a subject within the area of fruit production, fruit processing, or fruit marketing. May be repeated for a total of 3 credit hours.

**FRS 497 Selected Topics in Fruit Science.** 1-4, D.

Prerequisite: open to agriculture, biology, chemistry and related majors with at least 60 credit hours. Study of highly specialized topics related to fruit production or fruit processing. A variable content course which may be repeated for up to 6 credit hours when topic varies.

**FRS 499 Undergraduate Research.** 1-3, D.

Prerequisite: 60 or more credit hours and permission of the instructor. Individually conducted field and/or laboratory research under faculty supervision resulting in a research paper. May be repeated for a maximum of 9 credit hours.

*The following courses are open only to graduate students.*

**FRS 600 Plant Science Colloquium.** 1(1-0) F,S,Su.

Prerequisite: permission of graduate coordinator. A series of oral presentations on new developments in plant science. Presentations to be

made by faculty members, students, and guest speakers from industry and academe. May be repeated, but not more than 2 hours may be counted toward the M.S. Degree.

**FRS 601 Advanced Pomology.** 3(3-0) S.

Prerequisite: BIO 544 or permission of instructor. The culture and management of perennial fruit crops adapted to temperate climates. Physiology, technology, and research as it applies to modern production practices will be emphasized. May be taught concurrently with FRS 401. Students cannot receive credit for both FRS 401 and FRS 601.

**FRS 611 Viticulture.** 3(3-0) S.

Prerequisite: BIO 544 or permission of instructor. Principles of growing grapes based upon the genetics, physiology, development and morphology of the genus *Vitis*; the environments in which grapes are grown; and the uses of grapes. May be taught concurrently with FRS 411. Students cannot receive credit for both FRS 411 and FRS 611.

**FRS 621 Enology.** 3(3-0) S.

Prerequisite: BIO 310 or permission of instructor. The course will study the chemistry, microbiology, and technology of modern wine production.

**FRS 622 Enology Lab.** 2(0-4) F.

Prerequisite: FRS 621. Laboratory techniques in assessing wine production methods and quality.

**FRS 630 Advanced Topics in Plant Science.** (Identical to AGH 630) 3(3-0) F.

Prerequisite: permission of the instructor. An advanced topic in plant science will be addressed via faculty lectures and student projects. Examples of proposed topics include: Improved Disease Resistance in Viticulture, Application of Field Collected Data to Computer Analysis. May be repeated to a total of 6 hours with differing topics. Variable Content Course.

**FRS 631 Plant Genetic Engineering.** 3(3-0) S.

Prerequisite: BIO 235 or CHM 200 or CHM 310. Principles, methodology, and commercial applications of plant biotechnology. Includes brief introduction to nucleic acid structure, gene regulation, and genome organization in eukaryotic and prokaryotic organisms.

**FRS 698 Research.** 1-6, F,S,Su.

Prerequisite: permission of instructor. Supervised research in areas of emphasis within the discipline of plant science. May be repeated, but not more than 6 hours may be counted toward the M.S. degree.

**FRS 699 Thesis.** 1-6, F,S,Su.

Prerequisite: permission of instructor. Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated, but no more than 6 hours will be applied to the master's degree.

## Department of Biology

218 Temple Hall, Phone: 836-5126, FAX: 836-4204  
Email: [Biology@missouristate.edu](mailto:Biology@missouristate.edu)

**Department Head:** Professor S. Alicia Mathis, Ph.D.

**Professors:** Miles C. Barnhart, Ph.D.; Daniel W. Beckman, Ph.D.; Janice S. Greene, Ph.D.; John E. Havel, Ph.D.; John Heywood, Ph.D.; Don L. Moll, Ph.D.; Richard L. Myers, Ph.D.; Russell G. Rhodes, Ph.D.; Lynn W. Robbins, Ph.D.; John G. Steiert, Ph.D.; Thomas E. Tomasi, Ph.D.

**Associate Professors:** Paul L. Durham, Ph.D.; Georgiana Saunders, Ph.D.; D. Alexander Wait, Ph.D.

**Assistant Professor:** Brian D. Greene, Ph.D.

**Adjunct Faculty:** Wendy B. Anderson, Ph.D.; Michael D. Debacker, M.S.; Hsiu-Ping Liu, Ph.D.

**Emeritus Professors:** Jerry D. Berlin, Ph.D.; Loren L. Denney, Ed.D.; Roar L. Irgens, Ph.D.; Steven L. Jensen, Ph.D.; Barbara K. Newman, M.S.Ed.; Robert L. Philibert, Ph.D.; Grant L. Pyrah, Ph.D.; Paul L. Redfearn, Jr., Ph.D.; Tom A. Stombaugh, Ph.D.; Charles A. Taber, Ph.D.; Robert F. Wilkinson, Jr., Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Biology Education, B.S.Ed., Secondary Education/Biology, M.S.Ed.

### Credit By Examination

Credit for BIO 102 and 121 is available for the Advanced Placement (AP) Examination and the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### General Education Courses

The following courses may be counted toward satisfying the Natural World Area of Inquiry of the General Education requirements: BIO 100, 102 and 121.

**NOTE:** Students who have completed BIO 134 and 167 combination are not required to take BIO 121 and 122; BIO 121 and 122 cannot count as degree credit if BIO 134 and 167 are counted as credit.

## Majors

### Biology (Non-Comprehensive)

#### Bachelor of Arts

A. General Education (see General Education section of catalog)

B. Major Requirements

1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)
2. Select elective courses in biology to total a minimum of 32 hours and include at least 12 hours of 300-level or above courses. Electives may be selected from one of the following emphases.
  - a. **Botany:** BIO 334(3), 436(4), 544(4). Suggested electives: BIO 339(2), 499(1-3), 531(2), 539(2), 545(2)
  - b. **Cellular Biology:** BIO 310(5), 511(3); BMS 514(2), 516(4), 524(3), 529(3), 585(4)
  - c. **Environmental Studies:** BIO 339(2), 370(4), 374(3), 562(4)
  - d. **Microbiology:** BIO 310(5), 508(3), 511(3), 517(4), 520(3); BMS 524(3), 529(3)
  - e. **Wildlife Biology:** BIO 562(4) and 575(3); or BIO 573(3) and 577(3). BIO 334(2), 339(2), 373(3), 589(3). Students interested in certification requirements as set by the Wildlife Society and the American Fisheries Society should consult with their academic advisor.
  - f. **Zoology:** BIO 371(3), 374(3), 539(2), 562(4), 563(3), 571(4), 574(2), 575(3), 576(3), 577(3), 589(3); BMS 582(4), 585(4)
3. Related Requirements: CHM 200(5) or 310(5) and 311(5) or 312(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)

C. Minor Required

D. Specific Requirements for Bachelor of Arts Degree (see “Academic Programs and Requirements” section catalog)

E. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Biology (Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

B. Major Requirements (37-46 hours)

1. BIO 121 (4), 122 (4), 235 (4), 550 (3), 494 (1)
2. PHY 123 (4) and 124 (4); or PHY 203 (5) and 204 (5)
3. MTH 138 (5) or 181 (3), or eligibility for MTH 261 on mathematics placement test
4. BIO 310 (5) or 320 (4) or 361 (4) or 544 (4); consult options below before selecting course
5. CHM 105 (5) or 160 (4); consult options below before selecting course
6. CHM 200 (5) or 310 (5) or 330 (5); consult options below before selecting course
7. Complete requirements in one of the following options\*:
  - a. **General Biology** (37-40 hours)
    1. Required courses: BIO 310 (5) or 320 (4), 369 (4)
    2. Complete courses in structural and functional biology totaling at least 6 hours from the following: BIO 355 (4), 361 (4), 380 (5), 511 (4), 515 (3), 517 (4), 520 (3), 540 (4), 544 (4), 546 (4), 560 (3), 567 (4), 571 (4)
    3. Complete courses in biodiversity totaling at least 6 hours from the following: BIO 334 (3), 339 (2), 370 (4), 371 (3), 374 (3), 530 (3), 531 (2), 545 (2), 573 (3), 574 (2), 575 (3), 576 (3), 577 (3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534 (2), 535 (1), 555 (3), 556 (3), 587 (3), 588 (3)
    4. Complete courses in ecology totaling at least 6 hours from the following: BIO 373 (3), 436(4), 485 (1-3), 508 (3), 527 (1-4), 532 (3), 539 (2), 562 (4), 563 (3), 567 (4), 578 (4), 584 (2), 589 (3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 537 (2), 538 (2), 565 (3), 566 (2)
    5. Complete 0-8 additional hours of BIO courses to bring total to a minimum of 50 hours in Biology
    6. Related requirements in Mathematics, Statistics, or Computer programming: MTH 261 (5) or 287 (3) or 546 (3) or 547 (3) or CSC 125 (3) or 131 (4) or PSY 527(3)
    7. Related requirements in Chemistry: CHM 160 (4), 170 (3), 175 (2)
  - b. **Ecology, Evolution, and Systematics** (33-38 hours)
    1. Required courses: BIO 369 (4), 515 (3)
    2. Complete courses in biodiversity totaling at least 3 hours from the following: BIO 334 (3), 339 (2), 370 (4), 371 (3), 374 (3), 380 (5), 530 (3), 545 (2), 546 (4), 571 (4), 573 (3), 574 (2), 575 (3), 576 (3), 577 (3); the

- following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534 (2), 535 (1), 555 (3), 556 (3), 587 (3), 588 (3)
- Complete courses in population biology totaling at least 3 hours from the following: BIO 436(4), 532 (3), 540 (4), 560 (3), 563 (3), 567 (4), 578 (4), 584 (2), 589 (3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 557 (2), 558 (2)
  - Complete courses in community/ecosystem biology totaling at least 3 hours from the following: BIO 373 (3), 485 (1-3), 508 (3), 533 (3), 539 (2), 562 (4); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: 537 (2), 538 (2), 565 (3), 566 (2)
  - Students must take at least one biology course with a substantial field component. A course used to satisfy this requirement also may be counted toward the biodiversity, population biology, and community/ecosystem biology concentration areas described above. Complete one of the following: BIO 370 (4), 374 (3), 436(4), 527 (1-4), 562 (4), 574 (2), 575 (3), 576 (3), 577 (3), any biology course taught at the Gulf Coast Research Laboratory, any biology course taught at the Bull Shoals Field station or another field station (with the approval of your advisor)
  - Complete 0-7 hours of elective BIO courses at the level of 300 or above to total a minimum of 43 hours in biology
  - Complete one of the following: AGA 215 (3), ANT 227 (3), CHM 225 (3), CHM 505 (4), CHM 506 (3), GLG 110 (4), PHI 325 (3)
  - Related requirements in Mathematics, Statistics, or Computer programming: MTH 261 (5) or 287 (3) or 546 (3) or 547 (3) or CSC 125 (3) or 131 (4) or PSY 527 (3)
  - Related requirements in Chemistry: CHM 160 (4), 170 (3), 175 (2)
- c. **Microbiology and Biotechnology** (33-42 hours)
- Required courses: BIO 310 (5), 320 (4)
  - Complete 21 additional hours in BIO courses with a minimum of 18 hours from the following: BIO 355(4), 508(3), 511(3), 512(3), 515(3), 517(4), 520(3), 530(3), 540(4); BMS 524(3) may be substituted for one of these courses; CHM 330(5), 480(4), or 502(4) may be substituted for one of these courses
  - Related requirements in Chemistry: CHM 160 (4), 170 (3), 175 (2), 200 (5) or 310 (5) and 311 (5) or 312 (3), 350 (3) or 450 (3) and 550 (3)
- d. **Organismal Biology** (30-41 hours)
- Required courses: BIO 310 (5) or 320 (4), 369 (4), 515 (3)
  - Complete two courses in anatomy and physiology: BIO 361 (4), 380 (5), 544 (4), 546 (4), 567 (4), 571 (4)
  - Complete a minimum of 2 hours in biodiversity: BIO 334 (3), 339 (2), 370 (4), 371 (3), 374 (3), 530 (3), 545 (2), 573 (3), 574 (2), 575 (3), 576 (3), 577 (3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534 (2), 535 (1), 555 (3), 556 (3), 587 (3), 588 (3)
  - Complete elective 0-3 hours of BIO courses to total a minimum of 40 hours in Biology. One class from the following can be counted for this requirement: AGS 306 (3), BMS 582 (4), BMS 585 (4), PSY 336 (3), PSY 521 (3)
  - Related requirements in Mathematics, Statistics, and Computer programming: MTH 261 (5) or 287 (3) or 546 (3) or 547 (3) or CSC 125 (3) or 131 (4) or PSY 527 (3)
  - Related requirements in Chemistry: CHM 160 (4), 170 (3), 175 (2), 200 (5) or 310 (5) and 311 (5) or 312 (3), 350 (3) or 450 (3) and 550 (3)
- e. **Wildlife Biology** (30-47 hours)
- Required courses: BIO 320 (4) or 361 (4), 369 (4)
  - Complete two courses in plant biology from: BIO 334 (3), 339 (2), 530 (3), 544 (4), 545 (2), 546 (4)
  - Complete three courses in animal biology from: BIO 370 (4), 371 (3), 374 (3), 380 (5), 571 (4), 573 (3), 574 (2), 575 (3), 576 (3), 577 (3)
  - Complete a minimum of 5 hours in management from: BIO 373 (3), 485 (1-3), 532 (3), 562 (4), 589 (3)
  - Complete two courses in ecology and evolution from: BIO 436 (4), 515 (3), 539 (2), 563 (3), 567 (4), 578 (4), 584 (2)
  - Complete one course in human dimensions from the following: AGA 335 (3), CRM 210 (3), ECO 540 (3), GRY 108 (3), GRY 351 (2), PHI 302 (3), PLS 555 (3), RIL 537 (3)
  - Complete one course in earth/environmental science: AGA 215 (3), CHM 225 (3), GLG 110 (4), GRY 142 (4)
- C. General Baccalaureate Degree Requirements (see Undergraduate Degrees and Requirement section of catalog)
- \* With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: 300, 399, 499, 597*
- ### Biology (Non-Comprehensive) Bachelor of Science
- A. General Education (see General Education section of catalog)
- B. Major Requirements
- BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)
  - Select elective courses in biology to total a minimum of 36 hours and include at least 12 hours of 300-level or above courses. Electives may be selected from one of the emphases listed under the Bachelor of Arts.
  - Related Requirements: CHM 200(5) or 310(5) and 311(5) or 312(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- ### Biology Education Bachelor of Science in Education (Certifiable grades 9-12)
- A. General Education (see General Education section of catalog)
- The following required courses can be used to meet both General Education and Major Requirements: BIO 121(4); MTH 135(3) or 181(3) or 138(5) or 261(5) or 287(3); CHM 105(5) or CHM 160(4) or GLG 110(4) or GRY 135(4) or GLG 171(4) or PHY 100(4) or PHY 123(4)
- B. Major Requirements
- Core (32 hours): BIO 121(4), 122(4), 215(2), 235(4), 310(5), 361(4), 369(4), 515(3); Select elective courses in biology, 300 level or above, to total a minimum of 32 hours
  - Related Requirements (6-9 hours): SCI 505(3); MTH 135(3) and MTH 181(3), or MTH 138(5), or MTH 261(5), or MTH 287(3); *NOTE: MTH 130 cannot be substituted for MTH 135*
  - Complete the requirements in one of the following grades 9-12 certification areas:
    - Categorical Science** (13-21 hours): CHM 105(5), or CHM 160(4) and 170(3) and 175(2); PHY 100(4), or PHY 123(4) and 124(4); GLG 110(4) or GRY 135(4) or GLG 171(4)
    - Unified Science** (25 hours): CHM 160(4), 170(3), 175(2); PHY 123(4), 124(4); GLG 110(4); GRY 135(4)
- C. Professional Education Courses (37 hours): SCI 414 (3), SCI 493(6), SCI 494(6) and see "Academic Programs and Requirements/Secondary Education" section of catalog

- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all coursework attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## **Wildlife Conservation and Management (Comprehensive)**

### **Bachelor of Science**

This major is offered in cooperation with the Agriculture Department.

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: BIO 121 (4); CHM 105 (5) or 160 (4); GLG 110 (4); GRY 100 (3); MTH 135 (3) or 138 (5)
- B. Major Requirements
1. Agriculture Requirements:
    - a. AGA 105 (3), 215 (3), 335 (3), 365 (3) or 375 (3); AGR 383 (3); AGW 143 (3), 496 (1)
    - b. Select two courses (4-6 hours) from:  
AGA 485 (3); AGB 354 (2); AGH 333 (3), 483 (3); AGW 351 (2)
  2. Biology Requirements:
    - a. BIO 121 (4)\*, 122 (4)\*, 334 (3), BIO 339 (2) or 545 (2), 373 (3)
    - b. Select one course from: BIO 369 (4), 436 (4), 562 (4)
    - c. Select two courses from: BIO 573 (3), 575 (3), 577 (3)
  3. Select ten additional hours in Agriculture and/or Biology. An advisor **must** be contacted to determine specific requirements that would result in eligibility to be placed on federal and state registries in Fisheries Biology, Social Science, Wildlife Biology, etc.
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

*\*Students who have completed BIO 134 and 167 combination are not required to take BIO 121 and 122; BIO 121 and 122 cannot count as degree credit if BIO 134 and 167 are counted as credit.*

## **Minors**

### **Biology**

#### **Bachelor of Arts**

BIO 121 (4), 122 (4), 235 (4) and biology electives to total 15 hours.

### **Biology**

#### **Bachelor of Science**

BIO 121 (4), 122 (4), 235 (4), 369 (4) and biology electives to total 20 hours.

### **Biology**

#### **Bachelor of Science in Education**

##### **(Non-Certifiable)**

BIO 121 (4), 122 (4), 235 (4), 320 (4), and 369 (4).

## **Certification**

### **Health Education**

#### **(Certifiable grades 9-12)**

Students who complete the Bachelor of Science in Education degree with a major in Biology may receive Missouri state certification in Health

Education grades 9-12 by completing the following courses: BMS 307 (4) or PED 250 (3), BMS 308 (4) or PED 252 (3), or equivalents; CFD 163 (3); CFS 130 (3) or BMS 240 (3); PED 253 (2), 256 (2), 257 (2), 358 (3); PSY 101 (3); SWK 330 (3); plus additional hours of electives in health-related courses, in consultation with their advisor, to bring total to 30 hours. In order to meet Missouri state teacher certification requirements, student must have at least a 2.50 GPA in the certificate subject area which includes all courses listed above.

## **Graduate Programs**

The Master of Science degree offers majors in Biology and Plant Science. The Master of Science in Education (secondary education major) and the Master of Natural and Applied Science offer an area of emphasis in biology. See the Graduate Catalog for details.

### **Accelerated Master of Natural and Applied Science degree**

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### **Accelerated Master of Science degree in Biology**

Eligible undergraduate students majoring in biology may apply for preliminary acceptance into the Master of Science degree in Biology after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This offers an opportunity for biology majors with undergraduate laboratory research experience to complete the course requirements for the Master of Science degree in Biology in two semesters and a summer after attaining the Bachelor's degree. See the Graduate Catalog or contact the Department of Biology for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## **Biology Courses**

### **BIO 100 Biological Science for Educators.** 4(3-3) F,S.

An introduction to the unifying principles of biology and the processes of scientific investigation using an inquiry approach. Laboratory experiences model inquiry teaching methods appropriate for use in early childhood, elementary, and middle school science lessons. This course is open only to early childhood, elementary, middle school, and special education majors. Does not count for credit towards a major or minor in biology. Students receive credit towards graduation for only one of BIO 100, BIO 101, or BIO 102.

### **BIO 101 Biological Concepts.** 3(3-0) F,S.

Lecture portion only of BIO 102. Does not count for general education credit for students whom enter under the fall 1997 catalog or later. Does



not count for credit towards a major or minor in biology. Students receive credit towards graduation for only one of BIO 100, 101, or 102.

**BIO 102 Principles of Biological Science.** 4(3-2) F,S.

Unifying principles of biology from the molecular level through ecosystems. Includes laboratory experience. Does not count for credit towards major or minor in biology. Students receive credit towards graduation for only one of BIO 100, 101, or 102.

**BIO 121 General Biology I.** 4(3-3) F,S.

Prerequisite: eligibility for both ENG 110 and MTH 135. First half of 2-semester introductory biology sequence for biology majors and minors. Introduction to the concepts of biological structure and function at the molecular and cellular level, genetics, and evolution. This course may not be taken pass/not pass. A grade of C or better in this course is a prerequisite for enrollment in BIO 122.

**BIO 122 General Biology II.** 4(3-3) F,S.

Prerequisite: BIO 121. Second half of 2-semester introductory biology sequence for biology majors and minors. Introduction to the biology of organisms including evolutionary history, diversity, structure, and function of major taxa; and ecology. This course may not be taken Pass/Not Pass. A grade of "C" or better is required in this course in order to take BIO 235, BIO 320, or BIO 369.

**BIO 134 General Botany.** 4(3-3) S.

Cytology, anatomy, physiology and heredity of seed plants; survey of plant kingdom, emphasizing taxonomy, morphology, evolution and ecology.

**BIO 197 (160) Selected Topics in Biology.** 1(1-0) or (0-2) D.

Prerequisite: permission of instructor. Course devoted to a biologic topic of current interest. Provided the topics are different, the course may be repeated to a total of 4 hours credit. Credit for this course cannot be applied to the minimum requirements of a major or minor in biology, or the general education (natural sciences) requirement.

**BIO 205 Life Science for Middle School.** 2(1-3) S.

Prerequisite: BIO 100 or BIO 102. Processes of science using the inquiry approach with reference to society, technology, and decision-making. Content covers cellular biology, plant and animal structure and function, ecology and environmental biology. Does not count for credit towards major or minor in biology.

**BIO 210 Elements of Microbiology.** 3(2-2) F,S.

Prerequisite: CHM 105 or CHM 160 and 4 credit hours of BIO courses. Public health aspects of microbiology, particularly causes and control of infectious diseases, immunology, sterilization and disinfection, and food and water bacteriology. A student who takes BIO 210 and BIO 310 receives credit toward graduation only for BIO 310.

**BIO 215 Introduction to the Diversity of Life.** 2(1-3) D.

Prerequisite: 4 hours of biology. Introduction to the diversity in structure and function of protists, fungi, plants and animals. This course is designed for B.S.Ed. students and does not count toward a B.A. or B.S. in Biology.

**BIO 235 Principles of Genetics.** 4(3-3) F,S.

Prerequisite: BIO 121 and BIO 122 and either MTH 135 or MTH 138 or MTH 261 or MTH 287. An introduction to basic concepts of molecular and Mendelian genetics and an inquiry into the basic processes of evolution.

**BIO 269 Principles of Ecology.** 3(3-0) F,S.

Prerequisite: BIO 102 or BIO 121. A lecture/discussion course focusing on the relationships among organisms and their environment. It will emphasize broad ecological principles dealing with individual organisms, populations, and communities, and how these relate to a single interactive unit—the ecosystem. Does not count toward the major or minor in biology. A student who takes BIO 369 will not receive credit for this course.

**BIO 300 Service Learning in Biology.** 1, F,S.

Prerequisite: 30 hours and permission, and concurrent registration in a Biology course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in biology to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will

vary depending on the specific course topic and learning objectives; students should investigate possible placements, available through the Biology Department and the Citizenship and Service Learning Office, prior to registration. No more than two hours of service learning may count toward graduation. A total maximum of 3 credit hours from any combination of BIO 300, 399, and 499 credit may be counted towards the major. Graded Pass/Not Pass only.

**BIO 310 Microbiology.** 5(3-4) F,S.

Prerequisite: BIO 235 or BMS 230. Fundamental principles of microbiology; development of sound laboratory skills. A student who takes BIO 210 and BIO 310 receives credit toward graduation only for BIO 310.

**BIO 320 Introduction to Cellular Biology.** 4(3-2) F,S.

Prerequisite: BIO 235 or BMS 230 or permission; CHM 200 or 310. Introduction to the structure and function of cells with an emphasis on eukaryotes.

**BIO 334 Plant Taxonomy.** 3(2-3) S.

Prerequisite: BIO 121 and BIO 122. Basic systematic principles, including the naming, classification, diversity, and evolution of angiosperms. Laboratory emphasis is on vegetative and reproductive morphology, use of taxonomic keys, and identification of common families and species of the local flora.

**BIO 339 Identification of Woody Plants.** 2(0-4) F.

Prerequisite: BIO 121 and BIO 122. A field course emphasizing the identification of woody plants (including some ornamentals) of the Interior Highlands of North America. Some consideration of forest communities and their distribution will also be included. Some Saturday field trips scheduled.

**BIO 355 Developmental Biology.** 4(3-2) D.

Prerequisite: BIO 235. An introduction to mechanistic embryology of selected vertebrate, invertebrate, and plant model systems. Lecture emphasis on fertilization, morphogenesis, cell surface roles in morphogenesis, cell motility, organo-genesis, metamorphosis, regeneration, and neoplasia as a developmental system. Laboratory emphasis on the normal ontogenetic development of live animal and plant systems and the experimental modification of these systems. Cannot receive credit for both BIO 355 and BIO 655.

**BIO 361 General Physiology.** 4(3-3) F,S.

Prerequisite: BIO 235. A study in animal biology that emphasizes the functional features of whole organisms including physiological regulations. A grade of "C" or better is required in this course in order to take BMS 363.

**BIO 369 General Ecology.** 4(3-2) F,S.

Prerequisite: BIO 121 and BIO 122 and MTH 135 or higher. Introduction to the basic concepts of ecology. Cannot receive credit for both BIO 269 and BIO 369.

**BIO 370 Invertebrate Zoology.** 4(2-4) F.

Prerequisite: BIO 121 and BIO 122. Biological principles exemplified by study of functional morphology, taxonomy and phylogeny of invertebrate phyla.

**BIO 371 Introduction to Entomology.** 3(2-2) S.

Prerequisite: BIO 121 and BIO 122 or permission. Introduction to insect structure and function with emphasis on comparative morphology, physiology, life history, behavior, and ecology.

**BIO 373 Principles of Wildlife Management.** 3(3-0) F.

Prerequisite: BIO 121 and BIO 122. This course considers ecological principles, conservation, and management policies for wild animals and habitats.

**BIO 374 Field Zoology.** 3(1-4) F.

Prerequisite: BIO 121 and BIO 122. Taxonomy, ecology and life histories of vertebrate animals with emphasis on local forms. Students taking two or more of the following courses cannot count the credit of this course for their degree: BIO 573, 575, 576 and 577.

**BIO 380 Comparative Vertebrate Anatomy.** 5(2-6) F,S.

Prerequisite: BIO 121 and BIO 122. Vertebrate gross anatomy. Phylogeny and present status of organ systems of vertebrates. Shark, mud puppy and cat serve as principal sources for laboratory exercises.

**BIO 398 Laboratory Internship in Biology.** 1(0-3) F,S.

Prerequisite: B.S.Ed major in biology, BIO 310 and BIO 369, and permission of instructor. This course provides the opportunity to earn

academic credit through supervised laboratory preparation and teaching. Graded Pass/Not Pass only.

**BIO 399 (390) Cooperative Education in Biology.** 1-3, F,S.

Prerequisite: acceptance into Cooperative Education Program and permission of department head. This course provides the opportunity to earn academic credit integrated with a supervised work experience. Under the guidance of a faculty advisor, students will complete a work-related independent study project. This is a variable content course that may be repeated to a total of 6 semester hours. A maximum of 3 credit hours from any combination of BIO 300, 399 and 499 may be counted towards the biology major. Graded Pass/Not Pass only.

**BIO 436 (536) Plant Ecology.** 4(2-4) F.

Prerequisite: BIO 369 or permission of instructor. The dynamics, structure, and distribution of plant populations and communities, with emphasis on interactions among plants, plants and other organisms, and plants and ecosystems. Laboratory emphasis on experimental studies in the greenhouse and field. Weekend field trip is required. BIO 436 may be taught concurrently with BIO 636. Cannot receive credit for both BIO 436 and BIO 636.

**BIO 485 Marine Conservation.** 1-3, D.

Prerequisite: BIO 102 or BIO 121. An overview of current issues related to the conservation and management of marine organisms, with emphasis on marine species and habitats exploited or endangered by human actions. BIO 485 may be taught concurrently with BIO 685. Cannot receive credit for both BIO 485 and 685.

**BIO 494 Senior Seminar.** 1(1-0) S.

Prerequisite: 90 hours and biology major. Current issues in the biological sciences will be discussed and information on post-graduate opportunities for biology majors will be presented. Successful completion of the Major Field Achievement Test will be required. Graded Pass/Not Pass only.

**BIO 498 Honors Senior Project.** 3, D.

Prerequisite: student must be a biology major and have junior standing and be a member of the Honors College and permission of instructor. The content of the project is determined by the honors student in consultation with a faculty member serving as project advisor and approved by the HC dean. The project can be started no earlier than the first semester of the junior year and must be completed before graduation. May be repeated to a total of 9 credit hours; a maximum of 3 credit hours may be counted toward the major in biology.

**BIO 499 Special Topics in Biology.** 1-3, F, S.

Prerequisite: permission of instructor. Open only to biology majors having a GPA of 3.00 or better and 20 hours of biology courses. Outstanding students obtain additional experience through independent study. May be repeated to a total of 3 credit hours. A maximum of 3 credit hours from any combination of BIO 300, 399 and 499 may be counted towards the major. Graded Pass/Not Pass only.

**BIO 508 Environmental Microbiology.** 3(2-2) F.

Prerequisite: BIO 210 or BIO 310. The study of the ecology of microorganisms and the applied use of microorganisms by man in the environment. Laboratory will emphasize current methods used in the field of environmental microbiology.

**BIO 509 Stream Ecology.** 4(2-4) S.

Prerequisite: BIO 369; CHM 105, or CHM 170 plus CHM 175. The interdisciplinary study of running waters, including study of the physical and chemical environment, trophic interactions, nutrient cycling, and the multiple impacts of humans on modifying these systems. Lectures, group discussion of readings, and laboratory and field exercises. One all-day Saturday field trip required.

**BIO 511 Immunology.** 3(2-2) F,S.

Prerequisite: BIO 210 or BIO 310. Fundamental principles of immunology. Lecture emphasis on the structure and function of antigens, antibodies, surface receptors, antigen-antibody interactions, other serologic reactions, immunoglobulin formation, cell responses, major histocompatibility complex, immunochemistry, immunogenetics, autoimmunity, immunosuppression, transplantation immunology and immunologic methods. Laboratory emphasis on immunologic techniques for investigative as well as clinical application.

**BIO 512 Industrial Microbiology.** 3(2-2) D.

Prerequisite: BIO 210 or BIO 310. An introduction to the fundamental concepts of industrial and applied microbiology. The industrial production of proteins, metabolites, polymers, biocides, and vaccines will be discussed in addition to biotransformations and environmental applications. Production improvement strategies that employ both physical and modern molecular techniques will be introduced. Laboratory will emphasize the selection of industrially important microorganisms, the theory and operation of a fermentor for the production of proteins, antibiotics, and steroids, use of analytical equipment for monitoring product formation, enzymes analysis, downstream processing, and bioreactor construction and design.

**BIO 515 (615) Evolution.** 3(3-0) F,S.

Prerequisite: BIO 235 and either MTH 135 or MTH 138. A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships.

**BIO 517 Microbial Physiology and Metabolism.** 4(2-4) F.

Prerequisite: BIO 210 or BIO 310 and either CHM 200 or CHM 310. Physiology and anatomy of microorganisms including adaptive responses to environmental changes and microbial metabolic diversity will be discussed. Laboratory will emphasize selective isolation and identification of microorganisms, the growth dynamics of microorganisms, and responses by microorganisms to environmental changes.

**BIO 520 Pathogenic Microbiology.** 3(3-0) S.

Prerequisite: BIO 210 or BIO 310. Fundamental principles of pathogenic microbiology; transmission, infection and control of the pathogen.

**BIO 527 Field Biology.** 1-4, D.

Prerequisite: permission of instructor. Field work during an extended field trip to a specific region of North America to familiarize the student with the flora and/or fauna of that region. Course is scheduled irregularly during academic breaks and may be preceded by several lectures in preparation for the trip. An incidental fee may be charged; cost will vary. May be repeated to a total of 6 credits with a maximum of 3 credits to be applied to the major in biology.

**BIO 530 Phycology.** 3(2-2) S.

Prerequisite: BIO 369. The structure, function, ecological significance, and diversity of algae. Emphasis will be placed on field studies, isolation and growth, and physiological characteristics.

**BIO 531 Economic Botany.** 2(2-0) FE.

Prerequisite: BIO 102 or BIO 121. Distribution and origin of plants which yield food, poison, drugs, spices, fibers, oils and other products generally used by man. Methods of preparations and analysis of products and ingredients.

**BIO 532 Principles of Fisheries Management.** 3(2-2) S.

Prerequisite: BIO 369 or BIO 373. Life history, population ecology, and management of exploited freshwater and marine species. Scientific sampling and analysis of fishery populations. Characterization, history, and management principles for representative commercial and recreational fisheries.

**BIO 533 Wetland Ecology.** 3(2-2) F.

Prerequisite: BIO 369 and either CHM 105 or CHM 160. The composition, structure, function, and importance of wetland ecosystems. Comparisons of different wetland types, hydrology, nutrient cycles, plants and animals and their adaptations, and conservation strategies.

**BIO 539 Biogeography.** 2(2-0) F.

Prerequisite: BIO 121 and BIO 122. Study of patterns of distribution of organisms in space and in time.

**BIO 540 Applications of Molecular Markers.** 4(2-4) D.

Prerequisite: BIO 235 and permission. Introduction to the use of molecular markers in biological research. Topics covered include methods for identifying genetic variation at the molecular level (protein electrophoresis, automatic DNA sequencing, RAPDs, RFLPs, AFLPs, microsatellites) and their applications to research in systematics, ecology, evolution, conservation biology, forensics, and gene mapping.

Students will complete research projects using one or more of the techniques learned.

**BIO 544 (344) Plant Physiology.** 4(3-2) D.

Recommended: CHM 200 or CHM 310. Basic chemical and physical principles of plant function considering water relationships, nutrient transport, mineral nutrition, photosynthesis, respiration, and phytohormones.

**BIO 545 Agrostology.** 2(1-2) FO.

Prerequisite: BIO 334. Identification of local, native and economically important grasses.

**BIO 546 Plant Morphology.** 4(2-4) D.

Prerequisite: BIO 121 and BIO 122. A study of the form, structure, and evolution of plants.

**BIO 550 Biometry.** 3(3-0) F,S.

Prerequisite: BIO 235 and eligibility for MTH 261. Scientific methodology, experimental design, statistical analysis, and data interpretation applied to biological questions.

**BIO 551 Advanced Biometry.** 2(1-2) D.

Prerequisite: BIO 550. The design and analysis of biological experiments, with an emphasis on the choice and interpretation of inferential statistics. Topics covered include causal inference, statistical power, general linear models, repeated measures designs, log-linear models, nonparametric procedures, and computer-intensive techniques. The use of computer software to analyze real data sets from the biological literature is emphasized.

**BIO 560 Population Genetics and Evolutionary Mechanisms.** 3(3-0) D.

Prerequisite: BIO 515 and BIO 550. The theory of genetic variation in populations, with emphasis on quantitative description of the mechanisms of biological evolution.

**BIO 562 Limnology.** 4(2-4) S.

Prerequisite: BIO 369 and either CHM 105 or CHM 170 and CHM 175. Physical, chemical, biological functions of freshwater ecosystems. Laboratory includes mapping, lake models, water chemistry, and surveys of taxonomic diversity. Two all-day Saturday labs plus one weekend field trip required.

**BIO 563 Population Ecology.** 3(2-2) S.

Prerequisite: BIO 369 and eligibility for MTH 261. Discussion of factors controlling the distribution and abundance of populations. Quantitative description of population dynamics is emphasized.

**BIO 567 Physiological Ecology.** 4(4-0) SE.

Prerequisite: BIO 369 and either BIO 361 or BIO 544 or BMS 308. Physiological adaptations of plants and animals to environmentally stressful conditions and to ecological/evolutionary pressures.

**BIO 571 Comparative Animal Physiology.** 4(3-3) SO.

Prerequisite: BIO 361 or BMS 308. Organ/system function in a wide range of invertebrate and vertebrate animals.

**BIO 573 (276) Ornithology.** 3(2-2) S.

Prerequisite: 12 hours of biology. Taxonomy, distribution, life histories and ecology of birds; emphasis on Missouri forms. Early morning field trips required.

**BIO 574 Aquatic Entomology.** 2(1-3) D.

Prerequisite: BIO 371 or graduate status. Aquatic insects, ecology and taxonomy with emphasis on field applications.

**BIO 575 Ichthyology.** 3(2-2) F.

Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of fish with emphasis on Missouri forms.

**BIO 576 Herpetology.** 3(2-2) S.

Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of amphibians and reptiles with emphasis on Missouri forms. One weekend field trip required.

**BIO 577 Mammalogy.** 3(2-2) F.

Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of mammals with emphasis on Missouri forms. One weekend field trip required.

**BIO 578 Behavioral Ecology.** 4(3-2) S.

Prerequisite: BIO 369 and BIO 550, or permission of instructor. Fundamental principles of animal behavior with an emphasis on the

study of the ecological and evolutionary processes that influence behavior.

**BIO 584 Fish Ecology.** 2(2-0) D.

Prerequisite: BIO 369 and BIO 575. The biology of fishes in relation to environmental conditions at the individual, population, and community levels.

**BIO 589 Game Management.** 3(3-0) D.

Prerequisite: BIO 373. Management of game birds and mammals for recreational utilization.

**BIO 597 (598) Topics in Biology.** 1-4, D.

Prerequisite: permission of instructor. A variable content course to provide for the offering of selected topics in biology on a one time or first-time basis. May be repeated for credit when topic varies.

*The following courses are open only to graduate students.*

**BIO 610 Topics in Microbial Physiology.** 3(3-0) S.

Topics of interest in microbial physiology will be discussed. These may include, cell structure, energy production, fermentation, nitrogen metabolism, protein and nucleic acid syntheses, regulation of gene expression, and dynamics of cell growth. Lecture will supplement discussion sessions.

**BIO 612 Advanced Immunology.** 2(2-0) S.

Prerequisite: BIO 511. Cellular aspects of the immune system.

**BIO 622 Regulatory Mechanisms in Microorganisms.** 2(2-0) S.

Regulation of macromolecular synthesis and enzyme activity in bacteria and viruses.

**BIO 625 Advanced Limnology.** 2(2-0) D.

Prerequisite: BIO 562. Advanced concepts of biological, chemical and physical limnology. Recent symposia, reviews, and primary literature are discussed.

**BIO 626 Advanced Limnology Methods.** 2(0-4) D.

Prerequisite: BIO 562. Research and practical application of modern limnological methods are taught.

**BIO 628 Recent Advances in Biology.** 1(0-2) F,S.

Prerequisite: permission of instructor. Selected topics in biology to be discussed using original literature as the focal point. May be repeated when topic varies. Variable Content Course.

**BIO 630 Advanced Topics in Biology.** 1-4, F,S.

Prerequisite: permission of instructor. Individual study in biology; may include literature, field and/or laboratory work. May be repeated.

**BIO 634 Advanced Plant Taxonomy.** 4(2-4) D.

Prerequisite: permission of instructor. Philosophy and principles of modern taxonomic procedures.

**BIO 636 Plant Ecology.** 4(2-4) F.

Prerequisite: BIO 369 or permission of instructor. The dynamics, structure, and distribution of plant populations and communities, with emphasis on interactions among plants, plants and other organisms, and plants and ecosystems. Laboratory emphasis on experimental mental studies in the greenhouse and field. Weekend field trip is required. BIO 436 may be taught concurrently with BIO 636. Cannot receive credit for both BIO 436 and BIO 636.

**BIO 655 Advanced Developmental Biology.** 4(3-2) S.

Prerequisite: BIO 320 or permission. An in-depth study of the molecular and cellular mechanisms involved in the development of vertebrate, invertebrate, and plant systems. Lectures will emphasize fertilization, morphogenesis, differentiation, induction, regeneration, and neoplasia. Laboratory exercises will emphasize techniques utilized by developmental biologists. Review of current literature and poster presentations will be required. Cannot receive credit for both BIO 355 and BIO 655.

**BIO 660 Topics in the Teaching of Biology.** 1-3, D.

Prerequisite: permission of instructor. Biological concepts, information, practical experiences, and use of resource materials in the elementary and secondary classroom. May be repeated when topic varies. Variable Content Course.

**BIO 661 Environmental Science for Educators.** 2(1-2) F.

Prerequisite: permission of instructor. Discussion of environmental issues, practical experiences in teaching environmental concepts, and

awareness of environmental resource materials for the formal and nonformal classroom setting.

**BIO 667 Advanced Vertebrate Zoology.** 3(2-2) D.

Evolutionary relationships of living and extinct vertebrates; analysis of geographic distribution and adaptive radiation. Includes field/lab experiences to be arranged.

**BIO 680 Vertebrate Anatomy and Evolution.** 2(2-0) F,S.

Vertebrate gross anatomy. Phylogeny and present status of organ systems in vertebrates.

**BIO 685 Marine Conservation.** 1-3, D.

An overview of current issues related to the conservation and management of marine organisms, with emphasis on marine species and habitats exploited or endangered by human actions. BIO 485 may be taught concurrently with BIO 685. Cannot receive credit for both BIO 485 and 685.

**BIO 690 Degree Paper.** 2(2-0) D.

Prerequisite: permission of advisor. Extensive paper on selected topics. Exclusively satisfies requirements for non-thesis option, which also requires one BIO 690 paper to be presented orally to the department. Graded Pass/Not Pass only.

**BIO 694 Scientific Writing.** 2(2-0) F.

Organization and methods in scientific writing. Included are discussions of literature searching, scientific methodology, experimental design, proposal writing, figure preparation, editing and oral presentation. Recommended for graduate students in biology, preferably during the first year of graduate study.

**BIO 698 Research.** 1-6 D.

Prerequisite: permission of advisor. Supervised research in special biology areas. May be repeated, but no more than 6 hours may be counted as credit towards the M.S. Graded Pass/Not Pass only.

**BIO 699 Thesis.** 1-6 D.

Prerequisite: permission of advisor. Independent study connected with preparation of thesis. May be repeated, but no more than 6 hours may be counted as credit towards the M.S. Graded Pass/Not Pass only.

## Marine Biology Courses at Gulf Coast Research Laboratory

Under a contract between Missouri State University and Gulf Coast Research Laboratory at Ocean Springs, Mississippi, students can enroll for summer courses in marine biology taught at the Gulf Coast Research Laboratory. See Biology department head or your advisor for information on these courses.

**BIO 277 Marine Science II: Marine Biology.** 3(3-0) Su.

Prerequisite: 8 hours biology. A general introduction to marine biology with emphasis on local fauna and flora. Recommended for students considering a career in any phase of Oceanography. Concurrent enrollment in BIO 278 required.

**BIO 278 Marine Science II: Marine Biology Lab.** 2(0-4) Su.

Prerequisite: concurrent enrollment in BIO 277. Laboratory portion of BIO 277.

**BIO 521 Marine Science for Teachers I.** 2(2-0) Su.

Prerequisite: 12 hours in biology. A course designed to introduce students, particularly inservice teachers, to the study of marine science and to promote the teaching of marine biology at all grade levels. Concurrent enrollment in BIO 522 is required.

**BIO 522 Marine Science for Teachers I Lab.** 1(0-2) Su.

Prerequisite: concurrent enrollment in BIO 521. Laboratory portion of BIO 521.

**BIO 534 Coastal Vegetation.** 2(2-0) Su.

Prerequisite: 10 hours of biology including BIO 121 and BIO 122. A broad study of the general and specific aspects of coastal vegetation, with emphasis on local examples. Vegetational composition, variation, suc-

cession, climax, and distribution. Includes aerial techniques, plant identification, delineation of vegetational types and mapping. Concurrent enrollment in BIO 535 required.

**BIO 535 Coastal Vegetation Lab.** 1(0-2) Su.

Prerequisite: concurrent enrollment in BIO 534. Laboratory portion of BIO 534.

**BIO 537 (564) Salt Marsh Plant Ecology.** 2(2-0) Su.

Prerequisite: BIO 122 or BIO 134; and BIO 334; and BIO 544; and BIO 369. A study with emphasis on the botanical aspects of local marshes; includes plant identification, composition, structure, distribution, and development of coastal marshes. Biological and physical interrelationships. Primary productivity and relation of marshes to estuaries and associated fauna. Concurrent enrollment in BIO 538 required.

**BIO 538 Salt Marsh Plant Ecology Lab.** 2(0-4) Su.

Prerequisite: concurrent enrollment in BIO 537. Laboratory portion of BIO 537.

**BIO 555 Marine Ichthyology.** 3(3-0) Su.

Prerequisite: junior standing; 16 hours of biology including BIO 121, BIO 122, BIO 235, and BIO 380. This course provides the student with a strong general background in the biology of marine fishes. Emphasis placed on the principles involved in the classification and taxonomy of marine and estuarine fishes. Concurrent enrollment in BIO 556 required.

**BIO 556 Marine Ichthyology Lab.** 3(0-6) Su.

Prerequisite: concurrent enrollment in BIO 555. Laboratory portion of BIO 555.

**BIO 557 (579) Marine Fisheries Management.** 2(2-0) Su.

Prerequisite: permission of instructor. A course designed to familiarize students with practical marine fisheries management problems in today's real world. Covers the international and local, economic, social, legal, and political, as well as biological factors that are considered in decisions directed toward achieving optimum sustainable yield from marine resources. The history of management schemes, sources of information, current status of fishing technology, management methods, legal problems and educational needs are explored. Concurrent enrollment in BIO 558 required.

**BIO 558 Marine Fisheries Management Lab.** 2(0-4) Su.

Prerequisite: concurrent enrollment in BIO 557. Laboratory portion of BIO 557.

**BIO 565 Marine Ecology.** 3(3-0) Su.

Prerequisite: 16 hours of biology, including BIO 121 and BIO 122. A consideration of the relationship of marine organisms to their environment includes the effects of temperature, salinity, light, nutrient concentration, currents, and food on the abundance and distribution of marine organisms. Concurrent enrollment in BIO 566 required.

**BIO 566 Marine Ecology Lab.** 2(0-4) Su.

Prerequisite: concurrent enrollment in BIO 565. Laboratory portion of BIO 565.

**BIO 587 (582) Marine Invertebrate Zoology.** 3(3-0) Su.

Prerequisite: 16 hours in biology. A concentrated study of the free-living marine and estuarine invertebrates of Mississippi Sound and adjacent bayous, salt marshes, barrier islands, and the nearshore continental shelf of the northeastern Gulf of Mexico. Course emphasizes structure, classification, phylogenetic relationships, larval development, functional processes, and ecological aspects of Gulf of Mexico invertebrates and their natural assemblages. Advanced undergraduates and graduate students may be asked to conduct independent, short-term research projects during the course. Concurrent enrollment in BIO 588 required.

**BIO 588 Marine Invertebrate Zoology Lab.** 3(0-6) Su.

Prerequisite: concurrent enrollment in BIO 587. Laboratory portion of BIO 587.

## Department of Chemistry

423 Temple Hall, Phone: 836-5506, FAX: 836-5507  
Email: Chemistry@missouristate.edu

**Department Head:** Professor Tamera S. Jahnke, Ph.D.

**Professors:** Richard N. Biagioni, Ph.D.; Annette W. Gordon, Ph.D.; M. Reza Sedaghat-Herati, Ph.D.; Ralph W. Sheets, Ph.D.; Shujun Su, Ph.D.; Vernon J. Thielmann, Ph.D.; Paul M. Toom, Ph.D.; Anthony P. Toste, Ph.D.

**Associate Professors:** Eric Bosch, Ph.D.; Dean A. Cuebas, Ph.D.; Mark M. Richter, Ph.D.

**Assistant Professors:** Bryan E. Breyfogle, Ph.D.; Nikolay N. Gerasimchuk, Ph.D.; Erich D. Steinle, Ph.D.; James Zimmerman, Ph.D.

**Lecturer:** Frank James, Ph.D.

**Emeritus Professors:** Robert L. Ernst, Ph.D.; Wyman K. Grindstaff, Ph.D.; Franklin R. Hoggard, Ed.D.; Doris C. Lorz, M.S.; James F. O'Brien, Ph.D.; Clifton C. Thompson, Ph.D.; James M. Wilbur, Jr., Ph.D.

**Accreditations and Approvals:** American Chemical Society (ACS) – Chemistry/Graduate School and Chemistry/Industrial, B.S.Ed.; Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) - Chemistry Education, B.S.Ed., Secondary Education/Chemistry, M.S.Ed.

### American Chemical Society Certification

The Chemistry Department has been approved to offer a certified program of professional training. The comprehensive major meets all requirements for certification. In addition to the required degree program, approved departments may offer up to six degree options and we have approval for two options. The comprehensive major with the biochemistry emphasis is now approved by ACS as a Biochemistry option and the chemical education degree (if students take CHM310 and not CHM200) is now approved by ACS as a Chemical Education option. All students who have met the curricular guidelines of the approved programs will receive certification from the ACS. These options are recommended for students who plan graduate work in chemistry, teaching in a secondary school district, or employment in the chemical industry after graduation.

### Credit By Examination

Credit for CHM 160, 170, and 175 is available for the Advanced Placement (AP) Examination and the International Baccalaureate (IB) Subject Examination. See the "Academic Regulations/Credit By Exam" section of this catalog for information.

### General Education Courses

CHM 105, 106, 107, or 160 may be used toward the Natural World Area of Inquiry of the General Education Requirements.

### Notes and Restrictions

CHM 197 and 106 do not count toward a major or minor in any physical science program.

For major and minor programs, courses taken more than 10 years before graduation are subject to review and possible rejection by the chemistry staff.

Recommended schedules for a chemistry major listing the courses to be taken each semester are available in the departmental office.

## Majors

### Chemistry (Non-Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

B. Major Requirements

1. CHM160(4)\*, 170(3), 175(2), 310(5), 311(5), 330(5), 375(3), 398(1); 505(4) or 506(3) and CHM 507(3) and 508(2); 498(1), 502(4); and one hour from CHM 397, 399 or 499
2. Chemistry electives (8-10 hours) from one of the following categories:
  - a. For a basic chemistry program without a specific area of emphasis, at least eight hours from CHM 350(3), 376(2), 399 or 499 (2-3), 425(3), 509(2)
  - b. For students with a strong interest in environmental chemistry: CHM 425(3), 426(3), 427(2)
  - c. For students with a strong interest in biochemistry or premedicine: CHM 450(3), 451(2), 550(3), 551(2)

d. For a specific area of interest not included in categories a, b, or c: at least nine hours of chemistry courses numbered 300 or above selected in consultation with the student's academic advisor and approved by the department head.

3. Related science and mathematics requirements: MTH 261\* and 280(10) or MTH 261\* and 288(8) or MTH 287\* and 288(6); PHY 123\* and 124(8) or PHY 203\* and 204(10)

C. Minor Required

D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

*\*Will count toward General Education Requirements*

### Chemistry (Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

B. Major Requirements

1. CHM160(4)\*, 170(3), 175(2), 310(5), 311(5), 330(5), 375(3), 398(1), 450(3), 498(1), 506(3), 507(3), 508(2), 525(3), 531(4)
2. Related science and mathematics requirements: MTH 287\* and 288(6) or MTH 261\* and 280(10) or MTH 261\* and 288(8); PHY 123\* and 124(8) or PHY 203\* and 204(10); Recommended CSC 111(3)\*
3. Complete requirements in one of the following emphases:
  - a. **Biochemistry Emphasis:** This program is designed for students preparing for a career in medicine or graduate study in biochemistry.  
Required courses: CHM 399(1-3) or 499(1-3), 451(2), 550(3), 551(2); BIO 134(4) or 121(4)\*, 235(4), 320(4)  
Suggested electives: BIO 310(5). Premedical students should also take courses in anatomy and physiology.
  - b. **Graduate School Emphasis:** This program is designed for students preparing for graduate study in chemistry.  
Required courses: CHM 376(2), 499(1-3), 509(2); Select one: CHM 514(3), 545(3), 570(3) or 550(3)  
Suggested electives: one year foreign language
  - c. **Industrial Emphasis:** This program is designed for students preparing for industrial positions upon completion of the B.S. degree, but who wish to be prepared for future entry into graduate school.  
Required courses: CHM 376(2), 509(2), 514 or 545(3), four hours selected from 397(2), 399(1-3), 499(1-3)

*\*Will count toward General Education Requirements*

C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Chemistry Education

#### Bachelor of Science in Education

##### (Certifiable grades 9-12)

A. General Education (See General Education section of catalog)

The following required courses can be used to meet both General Education and Major Requirements: BIO 121(4); CHM 160(4) or PHY 123(4) or GLG 110(4) or GLG 171(4); MTH 287(3)

- B. Major Requirements:
1. Core (31-36 hours): CHM 160(4), 170(3), 175(2); CHM 200(5), or CHM 310(5) and CHM 311(5), or CHM 310(5) and CHM 312(3); CHM 330(5), 350(3), 425(3), 435(2), 505(4)
  2. Related Requirements (22 hours): PHY 123(4), 124(4); SCI 505(3); BIO 121(4); GLG 110(4) or GLG 171(4); MTH 287(3)
  3. Complete the requirements in one of the following grades 9-12 certification areas:
    - a. **Categorical Science** (3 hours): CHM 375(3)
    - b. **Unified Science** (13 hours): CHM 428(1); BIO 122(4); GLG 110(4); GRY 135(4)
- C. Professional Education courses (33 hours): SCI 414(3), SCI 493(6), SCI 494(6) and see Professional Education section of catalog
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## Minors

### Chemistry

#### Bachelor of Arts

#### Bachelor of Science

CHM 160(4), 170(3), 175(2); CHM 200(5) or 201(3) and an organic laboratory course, or CHM 310(5). Select electives numbered 200 or above to total 20 hours. The minor must include a minimum of 5 hours of course work numbered 300 or above.

## Graduate Programs

The Master of Science degree offers majors in Chemistry and Plant Science. The Master of Science in Education (secondary education major) and the Master of Natural and Applied Science degrees offer an area of emphasis in chemistry. See the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Accelerated Master of Science degree in Chemistry

Eligible undergraduate students majoring in chemistry may apply for preliminary acceptance into the Master of Science degree in Chemistry after admission requirements for this accelerated masters program have been satisfied. If approved, a maximum of 12 hours selected from CHM 507(3), 525(3), 531(4), and 545(3) may be designated as "mixed

credit" and counted toward both the undergraduate and graduate degree programs. This offers an opportunity for chemistry majors with undergraduate laboratory research experience to complete the course requirements for the Master of Science degree in Chemistry in two semesters and a summer after attaining the bachelors degree rather than the typical four semesters and a summer. See the Graduate Catalog or contact the Department of Chemistry for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Chemistry Courses

### CHM 105 Fundamentals of Chemistry. 5(4-2) F,S.

Prerequisite: eligibility for MTH 103 or higher. Emphasis on chemical fundamentals and applications. Recommended for students needing only one semester of general chemistry. (CHM 105 will not count toward a chemistry major or minor.) Course does satisfy prerequisite for CHM 200. A grade of "C" or better is required in this course in order to take CHM 200. May not be taken Pass/Not Pass.

### CHM 106 Fundamentals of Chemistry. 4(4-0) F,S.

Prerequisite: eligibility for MTH 103 or higher. Same course as CHM 105 except it does not include a laboratory component. Emphasis on chemical fundamentals and applications. Recommended for students needing only one semester of introductory chemistry. (CHM 106 will not count toward a chemistry major or minor.) May not receive credit for both CHM 105 and 106. Students should be aware that CHM 106 may not satisfy the chemistry requirement for other majors.

### CHM 107 Chemistry for the Citizen. 4(3-2) F,S.

A one semester course for the non-science major. Principal concepts and applications of chemistry are presented. The course looks at both the beneficial side of chemical usage and the problems associated with chemical production and usage. The course provides information needed for a better understanding of environmental concerns, the chemical industry, consumer products and our alternate sources and storage of energy.

### CHM 160 General Chemistry I. 4(4-0) F,S.

Prerequisite: eligibility for MTH 135 or higher. Emphasis on fundamental and theoretical concepts of chemistry. Recommended for all science majors, chemistry majors and minors, and most preprofessional students. A grade of "C" or better is required in this course in order to take CHM 170 or CHM 200. May not be taken Pass/Not Pass.

### CHM 170 General Chemistry II. 3(3-0) F,S.

Prerequisite: "C" grade or better in CHM 160 or permission. Emphasis on reaction kinetics, chemical equilibrium, precipitation reactions, acid-base theory and oxidation-reduction reactions. Concurrent registration in CHM 175 is highly recommended. A grade of "C" or better is required in this course in order to take CHM 310, 350 or 506. May not be taken Pass/Not Pass.

### CHM 175 General Chemistry Laboratory. 2(0-4) F,S.

Prerequisite: CHM 170 or concurrent enrollment. An introduction to laboratory chemistry, including synthesis, physical studies, qualitative and quantitative analysis, and data manipulation and interpretation. A grade of "C" or better is required in this course in order to take CHM 310 or 330. May not be taken Pass/Not Pass.

### CHM 197 (101) Chemical Topics. 1-3, F,S.

For non-science majors: a single topic of contemporary, historical or theoretical significance. Topics may vary each semester; course may be repeated any number of times provided the same topic is not retaken. Variable Content Course.

### CHM 200 Essentials of Organic Chemistry. 5(4-3) F,S.

Prerequisite: "C" grade or better in either CHM 105 or CHM 160. Principles of organic chemistry and biochemistry. Does not apply toward a chemistry major or minor if the student passes CHM 310. A grade of "C" or better is required in this course in order to take CHM 350. May not be taken Pass/Not Pass. Lecture portion identical to CHM 201 – cannot receive credit for both.

### CHM 201 Essentials of Organic Chemistry. 3(3-0) F,S.

Prerequisite: a "C" grade or better in either CHM 105 or CHM 160. Principles of organic chemistry and biochemistry. Identical to lecture portion of CHM 200 – cannot receive credit for both. Does not apply toward a chemistry major or minor if student passes CHM 310.

**CHM 225 Principles of Environmental Chemistry.** 3(3-0) SE.  
Prerequisite: "C" grade or better in CHM 105 or CHM 160. An introduction to chemical processes occurring in the atmosphere, natural waters and soil. Sources of pollution, effects and remediation strategies are emphasized.

**CHM 240 Glass Working.** 1(0-2) D.

Prerequisite: CHM 170. Instruction and practice in glass-working techniques needed to make simple apparatus.

**CHM 300 Service Learning in Chemistry.** 1, F,S.

Prerequisite: 30 hours and permission, and concurrent registration in a chemistry course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in chemistry to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; students should investigate possible placements, available through the Chemistry Department and the Citizenship and Service Learning Office, prior to registration. May be repeated but no more than 2 hours of service learning may count toward graduation.

**CHM 310 Organic Chemistry I.** 5(4-3) F,S.

Prerequisite: "C" grade or better in both CHM 170 and CHM 175. Systematic coverage of reactions and properties of organic compounds. A grade of "C" or better is required in this course in order to take CHM 311, CHM 312 or CHM 350. May not be taken Pass/Not Pass.

**CHM 311 Organic Chemistry II.** 5(4-3) F,S.

Prerequisite: "C" grade or better in CHM 310 or permission. Continuation of CHM 310. A grade of "C" or better is required in this course in order to take CHM 545. May not be taken Pass/Not Pass.

**CHM 312 Organic Chemistry II.** 3(3-0) F,S.

Prerequisite: "C" grade or better in CHM 310 or permission. Continuation of the lecture part of CHM 310. (Identical to lecture part of CHM 311.) A grade of "C" or better is required in this course in order to take CHM 545. May not be taken Pass/Not Pass.

**CHM 330 Quantitative Analysis.** 5(3-6) F,S.

Prerequisite: "C" grade or better in CHM 170 and CHM 175. Gravimetric and volumetric analyses are studied; representative analyses are performed in laboratory.

**CHM 350 Introduction to Biochemistry.** 3(3-0) F,S.

Prerequisite: "C" grade or better in either CHM 200 or CHM 310. Recommended: BIO 121 or BMS 110. Essentials of biochemistry; chemistry and metabolism of biologically important compounds. Does not apply to a chemistry major or minor if the student passes CHM 450.

**CHM 351 Introduction to Biochemistry Laboratory.** 2(0-4) F,S.

Prerequisite: CHM 350 or concurrent registration in CHM 350. Introduction to modern biochemical techniques including buffer preparation, chromatographic separations and spectrophotometric analysis of biomolecules. CHM 351 and 451 cannot both be applied toward a chemistry major or minor.

**CHM 375 Intermediate Inorganic Chemistry.** 3(3-0) F.

Prerequisite: "C" grade or better in CHM 170. Structure of atoms, introduction to bonding, symmetry in chemistry, inorganic spectroscopy, and descriptive inorganic chemistry. A grade of "C" or better is required in this course in order to take CHM 525. May not be taken Pass/Not Pass. May be taught concurrently with CHM 515. Cannot receive credit for both CHM 375 and CHM 515.

**CHM 376 (526) Inorganic Preparation.** 2(0-4) S.

Prerequisite: "C" grade or better in CHM 375. Synthesis of inorganic compounds and measurements of physical and chemical properties of selected inorganic compounds.

**CHM 397 (380) Cooperative Education in Chemistry.** 2, F,S.

Prerequisite: acceptance into Cooperative Education Program and permission. A combination of supervised work experience in an industrial or governmental laboratory and academic training. May be repeated to a total of 6 semester hours. Variable Content Course.

**CHM 398 (395) Chemical Symposium.** 1(1-0) F,S.

Prerequisite: 18 hours of chemistry. Introduction to scientific communication, both written and oral, career preparation and current trends in chemical research. Does not count toward a chemistry minor.

**CHM 399 Undergraduate Investigations.** 1-3, F,S.

Prerequisite: permission of instructor. Individual investigation of a chemical problem. May be repeated to a total of 5 hours.

**CHM 425 Environmental Chemistry I.** 3(3-0) F.

Prerequisite: "C" or better in CHM 170 and "C" or better in CHM 200 or 311 and "C" or better in CHM 330; or permission from the department head. Chemistry of pollution. Sources, effects, detection and abatement of pollutants in air, water and soil. May be taught concurrently with CHM 615. Cannot receive credit for both CHM 425 and CHM 615.

**CHM 426 Environmental Chemistry II.** 3(3-0) S.

Prerequisite: "C" or better in CHM 425. Continuation of CHM 425. May be taught concurrently with CHM 616. Cannot receive credit for both CHM 426 and CHM 616.

**CHM 427 Environmental Chemistry Laboratory.** 2(0-4) S.

Prerequisite: "C" or better in CHM 425. Techniques and procedures for environmental monitoring to test natural samples. Applications and limitations of wet chemical and instrumental methods such as atomic absorption, gas chromatography, absorption spectrophotometry. May be taught concurrently with CHM 617. Cannot receive credit for both CHM 427 and CHM 617 or both CHM 427 and CHM 428.

**CHM 428 Environmental Analysis.** 1(0-2) S.

Prerequisite: "C" or better in CHM 425. Techniques and procedures for environmental analysis of natural water samples with an emphasis on wet chemical methods. Cannot receive credit for both CHM 427 and CHM 428. Scheduled as First Block class.

**CHM 435 (305) Investigations in Chemistry for Teachers.** 2(1-3) S.

Prerequisite: 15 hours of chemistry or permission. Techniques in performing science investigation with application to secondary and middle school science. May be taught concurrently with CHM 635. Cannot receive credit for both CHM 435 and CHM 635.

**CHM 450 Biochemistry I.** 3(3-0) F.

Prerequisite: "C" or better in either CHM 311 or CHM 312. Recommended: BIO 121 or BMS 110. Structure and function of biomolecules: proteins, enzymes, nucleic acids, carbohydrates, lipids and membranes.

**CHM 451 Biochemistry Laboratory I.** 2(0-4) F.

Prerequisite: CHM 450 or concurrent registration. A series of multidimensional biochemical experiments designed to explore the biochemical literature, scientific report writing, and the biochemical techniques used to isolate and study biomolecules. CHM 351 and 451 cannot both be applied toward a chemistry major or minor.

**CHM 498 (495) Senior Seminar.** 1(1-0) F,S.

Prerequisite: senior status chemistry major and permission of department head. Continuation of CHM 398. Successful completion of the chemistry assessment test will be required.

**CHM 499 Advanced Undergraduate Research.** 1-3, F,S.

Prerequisite: CHM 506 and CHM 508 and permission of instructor. Individual research problems in chemistry. A written report is required for this course. May be repeated to a total of 5 hours.

**CHM 502 Techniques of Instrumental Analysis.** 4(3-3) F.

Prerequisite: "C" or better in either CHM 200 or CHM 310 and; "C" or better in CHM 330. Recommended: PHY 124 or PHY 204. Applications of instrumental methods for the separation and analysis of materials; included are potentiometry, photometry and chromatography. Does not apply to a Chemistry major or minor if the student passes CHM 531.

**CHM 505 (480) Fundamentals of Physical Chemistry.** 4(3-3) S.

Prerequisite: 20 hours of chemistry coursework and; "C" or better in either MTH 287 or MTH 261. A one semester introduction to physical chemistry including the following topics: thermodynamics, solution chemistry, electrochemistry, kinetics, and atomic and molecular structure. Laboratory experiments will illustrate principles of physical chemistry and techniques of analysis. Does not apply to a Chemistry major or minor if the student passes CHM 506.

**CHM 506 Physical Chemistry I.** 3(3-0) F.

Prerequisite: "C" or better in CHM 170; MTH 280 or MTH 288 (or concurrent enrollment in MTH 280 or MTH 288). Recommended: PHY 124 or PHY 204. Chemical thermodynamics; kinetic theory of gases. A grade of "C" or better is required in this course in order to take CHM 507. May not be taken Pass/Not Pass.

**CHM 507 Physical Chemistry II.** 3(3-0) S.

Prerequisite: "C" grade or better in CHM 506. Recommended: CHM 375. Continuation of CHM 506. Kinetics, quantum theory and spectroscopy.

**CHM 508 Beginning Physical Chemistry Laboratory.** 2(0-4) F.

Prerequisite: "C" or better in CHM 330; "C" or better in CHM 506 (or concurrent enrollment in CHM 506). Experiments in physical chemistry employing basic principles and experimental techniques.



**CHM 509 Intermediate Physical Chemistry Laboratory.** 2(0-4) S.  
Prerequisite: CHM 507 or concurrent registration. Intermediate experiments in physical chemistry combining basic principles.

**CHM 514 Polymer Chemistry.** 3(3-0) SE.

Prerequisite: "C" or better in CHM 311 or CHM 312 and; either CHM 505 or CHM 506; or permission from department head. Morphology and chemical structure, polymer characterization, chemical structure and polymer properties, vinyl and non-vinyl polymers and mechanism of formation. Inorganic and partially inorganic polymers.

**CHM 515 Intermediate Inorganic Chemistry.** 3(3-0) F.

Prerequisite: admission to a graduate program. Structure of atoms, introduction to bonding, symmetry in chemistry, inorganic spectroscopy, and descriptive inorganic chemistry. A grade of "C" or better is required in this course in order to take CHM 525. CHM 375 may be taught concurrently with CHM 515. Cannot receive credit for both CHM 375 and CHM 515.

**CHM 525 Advanced Inorganic Chemistry.** 3(3-0) S.

Prerequisite: "C" or better in CHM 375; CHM 507 (or concurrent enrollment in CHM 507). Theories and techniques of modern inorganic chemistry; correlation of theories with inorganic compounds.

**CHM 531 Advanced Analytical Methods.** 4(3-3) F.

Prerequisite: "C" or better in CHM 330 and CHM 507. Principles and techniques of modern instrumental methods used in chemical analysis.

**CHM 545 Advanced Organic Chemistry.** 3(3-0) F.

Prerequisite: "C" grade or better in CHM 311 or 312 and 505 or 506, or permission. Structure, reaction mechanisms, stereochemistry and other topics of theoretical nature in organic and polymer chemistry.

**CHM 550 Biochemistry II.** 3(3-0) S.

Prerequisite: "C" or better in CHM 450 and; either CHM 505 or CHM 506; or permission from department head. Bioenergetics—Metabolism of biomolecules including carbohydrates, lipids, amino acids and nucleotides. Photosynthesis. Nitrogen metabolism. Mechanisms of hormone action.

**CHM 551 Advanced Biochemistry Laboratory.** 2(0-4) D.

Prerequisite: CHM 550 (or concurrent enrollment in CHM 550). Emphasis on modern techniques in the biochemistry laboratory; enzymology, protein purification and analysis; protein structure determination; isoelectric focusing; HPLC; trace techniques.

**CHM 570 Chemical Bonding.** 3(3-0) FE.

Prerequisite: CHM 507 or permission from department head. Quantum mechanics; atomic and molecular structure; computational procedures. Independent study project required.

**CHM 597 (501) Special Topics in Chemistry.** 1-3, D.

Prerequisite: 18 hours of chemistry or instructor permission. Selected topics of a theoretical or applied nature. May be repeated up to a total of 6 hours with differing topics.

*The following courses are open only to graduate students.*

**CHM 600 Chemistry Colloquium.** 1(1-0) F,S.

Prerequisite: admission to MS in Chemistry program or permission from department head. A series of oral presentations on new developments in chemistry. Presentations to be made by faculty members, students, and guest speakers from industry and academe. One of the requirements of this course is an oral presentation. May be repeated, but not more than 2 hours of CHM 600 may be counted toward the 32-hour requirement for the MS degree.

**CHM 601 Chemistry Seminar.** 1(1-0) F,S.

Prerequisite: admission to MS in Chemistry program or permission from department head. Attendance at oral presentations on new developments in chemistry. Presentations may include those made by departmental faculty members, departmental graduate students, guest speakers from industry and academe and ACS tour speakers. All graduate students not enrolled in CHM 600 must be enrolled in CHM 601. Hours earned will not count toward the 32 required for the MS Chemistry degree. Graded Pass/Not Pass only.

**CHM 610 Special Topics in Chemical Education.** 1-3, D. Prerequisite: college work sufficient to meet Missouri certification standards in chemistry for secondary teaching or permission. A single topic of current interest in the teaching of chemistry will be considered. May be repeated to a total of 9 hours provided the topics are different.

**CHM 615 Chemistry of Environmental Systems I.** 3(3-0) F.

Prerequisite: permission of instructor or department head. Chemistry of pollution. Sources, effects, detection and abatement of pollutants in air, water and soil. CHM 425 may be taught concurrently with CHM 615. Cannot receive credit for both CHM 425 and CHM 615.

**CHM 616 Chemistry of Environmental Systems II.** 3(3-0) S.

Prerequisite: CHM 615 and permission of instructor or department head. Chemistry of pollution. Sources, effects, detection and abatement of pollutants in air, water and soil. CHM 426 may be taught concurrently with CHM 616. Cannot receive credit for both CHM 426 and CHM 616.

**CHM 617 Chemistry of Environmental Systems Laboratory.** 2(0-4) S.

Prerequisite: CHM 615. Techniques and procedures for environmental monitoring to test natural samples. Applications and limitations of wet chemical and instrumental methods such as atomic absorption, gas chromatography, and absorption spectrophotometry. CHM 427 may be taught concurrently with CHM 617. Cannot receive credit for both CHM 427 and CHM 617.

**CHM 620 Topics in Theoretical Chemistry I.** 3(3-0) D.

Prerequisite: college work sufficient to meet Missouri certification standards in chemistry for secondary teaching or permission. Nature of matter including atomic structure, chemical bonding and spectroscopy.

**CHM 625 Organometallic Chemistry.** 3(3-0) FE.

Prerequisite: CHM 525. An in-depth examination of the structure, properties, and reactions of molecules containing one or more metal atoms bonded to organic fragments.

**CHM 631 Advanced Techniques in Chemical Analysis.** 3(3-0) SO.

Prerequisite: CHM 531 or permission. Advanced topics in modern instrumental analysis, instrumentation, and methods, including data acquisition methods, data manipulation and analysis, and electronics.

**CHM 635 Investigation in Chemistry for Teachers.** 3(1-4) S.

Prerequisite: college work sufficient to meet Missouri certification standards for secondary/middle school science teaching or permission. Techniques in performing science investigation with application to secondary and middle school science. CHM 435 may be taught concurrently with CHM 635. Cannot receive credit for both CHM 435 and CHM 635.

**CHM 640 Seminar.** 2(2-0) D.

Prerequisite: permission of department head. Extensive paper on selected topics to be read before staff seminars. May be repeated to total 4 hours. Satisfies requirements for Option II.

**CHM 645 Physical Organic Chemistry.** 3(3-0) D.

Prerequisite: CHM 545. An in-depth study of the experimental techniques and physical principles used for the determination of organic reaction mechanisms.

**CHM 650 Advanced Topics in Biochemistry.** 3(3-0) SO.

Prerequisite: CHM 550. An advanced topic in biochemistry will be addressed via faculty lectures and student projects. Examples of proposed topics include: carbohydrates, the cell surface, and physical biochemistry. May be repeated to a total of 6 hours with differing topics. Variable Content Course.

**CHM 670 Chemical Kinetics.** 3(3-0) FO.

Prerequisite: CHM 507. Fundamental concepts of chemical kinetics and dynamics, from both macroscopic and molecular level perspectives. An emphasis will be placed on the interpretation of gas, liquid, surface and catalyst reaction kinetics and mechanisms.

**CHM 690 Advanced Topics in Chemistry.** 1-3 D.

Prerequisite: recommendation of student's advisory committee. Detailed treatment of various advanced topics in chemistry. Topics may include: water analysis, physical chemistry of macromolecules, chemistry of natural products, surface chemistry, and forensic chemistry. May be repeated to a total of 6 hours with differing topics. Variable Content Course.

**Approved recurring course topic: Radiation and the Environment.** 3(3-0) SE.

Students will examine radioactivity in the environment in terms of its nature and causes, its impact on the biosphere, techniques for detecting its presence and measuring levels of contamination, ways of coping with its effects while capitalizing on its benefits, and possible methods for ameliorating some of the problems it creates.

**CHM 698 Research.** 1-4 F,S.

Prerequisite: admission to MS in Chemistry program or permission from department head. Supervised research in special chemistry areas. May be repeated, but not more than 6 hours of CHM 698 may be counted toward the 32-hour requirement for the MS degree.

**CHM 699 Thesis.** 1-6, D.

Prerequisite: admission to MS in Chemistry program or permission from department head. Independent research and study connected with preparation of thesis. Not more than 6 hours of CHM 699 may be counted toward the 32-hour requirement for the MS degree.



## Department of Computer Science

203C Cheek Hall, Phone: 836-4157, FAX 836-6659

Email: ComputerScience@missouristate.edu

**Department Head:** Professor Lloyd Smith, Ph.D.

**Associate Professors:** Edward H. Matthews, Ph.D.; Jamil M. Saquer, Ph.D.; Eric Shade, Ph.D.; Joseph W. Trigg, Jr., Ph.D.; Kenneth Vollmar, Ph.D.; Yang Wang, Ph.D.

**Assistant Professor:** Richard Martin, Ed.D.

**Lecturers:** Michael Scroggins, M.B.A.; Harry Shea, M.S.

**Emeritus Professors:** Melvin V. Foster, Ph.D.; Ivon H. Lowsley, Jr., Ph.D.

**Accreditations and Approvals:** Computing Accreditation Commission (CAC) of ABET – Computer Science, B.S.

### Credit By Examination

Credit for CSC 131 and 232 is available for the Advanced Placement (AP) Examination and the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### Proficiency Examination

A proficiency examination to obtain waiver from completing the General Education/Computers for Learning requirement (CIS 101, CSC 101, CSC 111) is available. Credit is not granted for this examination. See the department for information.

### General Education Courses

CSC 101 or 111, will satisfy the Computers for Learning requirement for General Education.

## Majors

### Computer Science (Non-Comprehensive) Bachelor of Science

This major has been accredited by the Computing Accreditation Commission (CAC) of ABET.

A. General Education (see General Education section of catalog)

B. Major Requirements

1. CSC 130(3), 131(4), 232(4), 285(4), 325(3), 333(4), 450(3), 460(4), 482(1)
2. Select nine additional hours from *eligible* CSC courses numbered 300 or above with at least six hours from courses other than CSC 399 and 596.
3. Related science and mathematics requirements: MTH 215(3), 261(5)\*, 280(5)\*, 345(3) or 540(3); PHY 203(5)\*, 204(5), 220(4), 324(4); and one of the following courses: BIO 121(4)\*, BMS 110(4)\*, CHM 160(4)\*, GLG 110(4)\*, GRY 135(4)\*, GRY 142(4)\*

\* *May also count toward General Education Requirements*

C. Minor Required (NOTE: The major requirements for Computer Science automatically satisfy the requirements for a minor in Mathematics, and all but two hours of the requirements for a minor in Physics.)

D. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

## Minors

### Computer Science Bachelor of Science

CSC 130(3); and CSC 121(3) or CSC 125(3) or CSC 131(4); and at least 6 additional hours from eligible CSC courses numbered 232 or above to bring total hours in minor to at least 12.

### Informatics

#### Bachelor of Science

CSC 131(4), 232(4), 335(3), 487(3); MTH 261(5) or MTH 287(3); MTH 280(5) or MTH 288(3); BIO 550(3) or MTH 545(3)

## Graduate Program

The Master of Natural and Applied Science degree offers an emphasis area in Computer Science. See the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as “mixed credit” and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Computer Science Courses

**CSC 101 Computers for Learning.** 2(1-2) F,S. (Identical with CIS 101)

Fundamental computer concepts including word processing, spreadsheets, accessing information and the responsible use of information and technology. Course may be waived by proficiency exam.

**CSC 111 Introduction to Computing.** 3(2-2) F,S.

Prerequisite: eligible for MTH 261. An introduction to computer hardware, software, and network resources relevant to the science major. Spreadsheets, word processing, databases, and computer-based mathematical software will be emphasized.

**CSC 121 Introduction to BASIC Programming.** 3(3-0) S.

Problem solving with computers, analysis of computational problems and development of algorithms for their solution. Algorithms will be implemented in the BASIC language utilizing personal computers.

**CSC 125 Introduction to C++ Programming.** 3(3-0) F.

Programming and problem-solving using C++. Language constructs for assignment, flow control, input/output and functions are studied and applied. Techniques of object-oriented programming are introduced.

**CSC 130 The World of Computer Science.** 3(3-0) F,S.

A broad overview of computer science, with topics ranging from the basic structure of a computer to artificial intelligence. Suitable for non-majors who want to learn more about computer science. Prospective computer science majors are encouraged to take preparatory mathematics courses concurrently with this course.

**CSC 131 Introduction to Computer Science I.** 4(3-2) F,S.

Prerequisite: CSC 130 or concurrent enrollment, and eligible for MTH 261. An introduction to software design methodology using a modern structured programming language. Topics will include: problem-solving techniques; high-level control structures, subprograms and modularity; simple, aggregate and user-defined data types; and fundamental

algorithms. Program clarity, good coding style and effective documentation will be stressed.

**CSC 197 Introductory Topics in Computer Science.** 1-3.

Variable content course with topics that can change from semester to semester. Topics will be identified by title in the schedule of classes. The course may be repeated if a different topic is offered, however, no more than six credits may count toward any degree.

**CSC 226 Special Languages.** 3(3-0) D.

Prerequisite: CSC 121 or CSC 125 or CSC 131. A survey of modern higher level languages with emphasis on comparison of capabilities of languages. Choices of a language to be used in solving particular types of problems.

**CSC 232 (132) Introduction to Computer Science II.** 4(3-2) F,S.

Prerequisite: "C" or better in CSC 131; and MTH 215 or concurrent enrollment. A continuation of CSC 131. Topics will include: algorithm design; complexity analysis; abstract data types and encapsulation; basic data structures and their application, including stacks, queues, linked lists and binary trees; dynamic memory allocation; recursion; sorting and searching; debugging techniques.

**CSC 285 Computer Architecture.** 4(4-0) F,S.

Prerequisite: PHY 220 and CSC 131. Introduction to the architecture and internal operation of computers, including assembly language. A study of the major components, functional organization, and sequential operation of digital computers during program execution. Several computer architectures will be studied.

**CSC 300 Service Learning in Computer Science.** 1, F,S.

Prerequisite: 30 hours and concurrent registration in a Computer Science course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Computer Science to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**CSC 325 Algorithms and Advanced Data Structures.** 3(3-0) F,S.

Prerequisite: CSC 232 and MTH 215. This course should be taken as soon as possible after CSC 232. Algorithms and advanced data structures, including graphs, heaps, self-adjusting data structures, set representations and dynamic programming. Sample applications, including memory management and data compression. Introduction to NP-complete problems. Correctness proofs and efficiency analysis are stressed.

**CSC 333 Languages and Machines.** 4(4-0) F,S.

Prerequisite: CSC 232; and CSC 285 or concurrent enrollment; and MTH 215. A study of two classes of languages: formal languages (regular, context-free, and computable) and their associated machines (finite automata, pushdown automata, and Turing machines); and programming languages, including the essential features of imperative, functional, object-oriented, and logic programming languages, together with their design and implementation on modern computers and virtual machines. Includes a substantial number of programming assignments, most of which are language interpreters or machine simulators, to be implemented using a functional programming language that emphasizes recursion and higher-order functions. As a semester project, students must research a new programming language and use it to write a nontrivial application.

**CSC 335 Database System Concepts.** 3(3-0) F.

Prerequisite: CSC 121 or CSC 125 or CSC 131. A study of modern database systems and their underlying concepts. Core topics include the relational model, SQL, database design theory, query processing, file structures, transactions, and concurrency. Programming projects provide practical experience in developing GUI database applications.

**CSC 365 Internet Programming.** 3(3-0) S.

Prerequisite: CSC121 or CSC 125 or CSC 131. An introduction to paradigms and languages used in Internet and World Wide Web programming. These include modern tools for client-side and server-side programming and dynamic Web page generation. Advanced topics, such as security and XML, will be covered as time allows.

**CSC 399 Cooperative Education in Computer Science.** 1-3, D.

Prerequisite: permission of department head. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. This is a variable content course that may be repeated to a total of 6 semester hours. Does not count toward any Computer Science minor.

**CSC 421 Numerical Analysis I.** 3(3-0) D. (Identical with MTH 421)

Prerequisite: MTH 280. Recommended: CSC 131 or CSC 125. Finite differences, numerical integration, matrix computations, numerical solution of nonlinear systems and differential equations, least squares techniques, curve fitting. Problem solution will incorporate a symbolic mathematical program. Cannot receive credit for both CSC 421 and MTH 421.

**CSC 422 Numerical Analysis II.** 3(3-0) D. (Identical with MTH 422)

Prerequisite: CSC 421 and MTH 303. Continuation of CSC 421. Cannot receive credit for both CSC 422 and MTH 422.

**CSC 423 Digital Simulation.** 3(3-0) D.

Prerequisite: CSC 232 and either MTH 345 or MTH 540. The study of simulation techniques. Topics will include: probability distributions, statistical testing, random number generators, design of simulation experiments, language structures for simulation, and study of a simulation language.

**CSC 425 Computer Graphics.** 3(3-0) F.

Prerequisite: CSC 232 and MTH 215. Introduction to the hardware and software components of graphics systems. Development of algorithms for two-dimensional graphics including windowing, clipping, and transformations; algorithms for three dimensional graphics including viewing, transformations, and removal of hidden lines and surfaces. Data structures for graphics and interactive techniques will be stressed. May be taught concurrently with CSC 625. Cannot receive credit for both CSC 425 and CSC 625.

**CSC 435 Data Mining.** 3(3-0) D.

Prerequisite: CSC 232 or permission. This course studies the emerging technology of data mining - the automated extraction of patterns and information from data. The focus will be on understanding the algorithms underlying data mining and on the practical use of those algorithms. Students will use data mining software to analyze collections of data. May be taught concurrently with CSC 635. Cannot receive credit for both CSC 435 and CSC 635.

**CSC 440 Introduction to Artificial Intelligence.** 3(3-0) S.

Prerequisite: CSC 325. Techniques of artificial intelligence including study of expert systems, natural language processing, search strategies, computer vision and robotics. May be taught concurrently with CSC 640. Cannot receive credit for both CSC 440 and CSC 640.

**CSC 445 Computer Speech, Music and Images.** 3(3-0) D.

Prerequisite: CSC 232 or permission. This is an applied course focusing on the technical aspects of computer-based multimedia—speech, music, audio, and video. In any given semester, the focus may be more on audio or image processing, or it may be equally balanced between the two. Topics include multimedia data capture and representation, methods of data compression, multimedia information retrieval, and multimedia standards. May be taught concurrently with CSC 645. Cannot receive credit for both CSC 445 and CSC 645.

**CSC 450 Introduction to Software Engineering.** 3(3-0) F,S.

Prerequisite: CSC 325. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. These techniques will be applied to programming projects with students working in teams and managing all phases of a programming project.

**CSC 460 Theory of Computer Operating Systems.** 4(3-2) F, S.

Prerequisite: CSC 285 and CSC 325. The functions, design and techniques of computer operating systems. Topics include process manage-

ment, storage management, processor management, multi-processing, and networks. Several modern operating systems will be studied.

**CSC 465 Computer Networking.** 3(3-0) S.

Prerequisite: CSC 232. An introduction to the theory, concepts and techniques upon which modern computer networks and telecommunication systems are based. The emphasis will be on layered network architectures, the design frameworks for both local and wide area networks and communication protocols. May be taught concurrently with CSC 665. Cannot receive credit for both CSC 465 and CSC 665.

**CSC 482 Seminar in Computer Science.** 1(1-0) F,S.

Prerequisite: CSC 333 and CSC 460 (or concurrent enrollment). Current trends and ethics in computer science with consideration given to future opportunities in the field. A written report and successful completion of the computer science assessment test will be required.

**CSC 487 Computing for Bioinformatics.** 3(3-0) D.

Prerequisite: any one of CSC 121, CSC 125, CSC 131, CSC 232, BMS 231, BIO 235, or CHM 350. This course focuses on computational techniques used in bioinformatics. Topics will include nucleotide and amino acid data representation, sequence alignment, coding sequence prediction, and use of statistical models. Students will learn to use bioinformatics libraries with a script language such as Python or Perl. May be taught concurrently with CSC 687. Cannot receive credit for both CSC 487 and CSC 687.

**CSC 490 (397) Advanced Topics in Computer Science.** 1-4, D.

Prerequisite: CSC 232. Variable content course with advanced topics that can change from semester to semester. Topics may be identified by title in the schedule of classes. The course may be repeated if a different topic is offered, however, no more than six credits may count toward any degree. May be taught concurrently with CSC 690. Cannot receive credit for both CSC 490 and CSC 690.

**CSC 500 Hardware, Software, and Troubleshooting Personal Computers.** 3(2-2) D.

An introduction to the installation, maintenance, troubleshooting, upgrading, simple repair, and management of personal computers found in educational settings. This course will provide numerous laboratory experiences providing hands-on experience with the goal of enabling students to support personal computer laboratories found in PK-12 schools. This course cannot be taken for credit toward a computer science major or minor.

**CSC 505 Web-Based Resources in Educational Settings.** 2(2-0) D.

An introduction to the design, implementation, and management of World Wide Web resources over the Internet and Intranet networks. Topics include Internet overview, web authoring, web programming, server setting and maintenance. The objective of the course is to know tools (HTML, JavaScript, and JAVA applets, and Internet Server software, and Navigator/Internet Explorer software packages), and their applicability in WWW design and management in PK-12 school settings. This course cannot be taken for credit toward a computer science major or minor.

**CSC 510 Networking and Telecommunications in Educational Settings.** 2(2-0) D.

An introduction to networking and data communications from an educator's perspective. The course will examine the necessary computer hardware, software, and personnel resources relevant to networking and data communication requirements in various educational settings. Local Area Networks, Wide Area Networks, Network Interconnections, and the Internet will be addressed. This course cannot be taken for credit toward a computer science major or minor.

**CSC 521 Compiler Construction.** 4(3-2) D.

Prerequisite: CSC 333. Topics include lexical analysis, parsing, symbol tables, type checking, run-time organization, code generation, basic code optimization, and the use of compiler development tools. The student must write a complete compiler for a small imperative programming language.

**CSC 526 Methods of Optimization.** 3(3-0) D.

Prerequisite: CSC 421 or MTH 421; and MTH 533. Convex sets, classical optimization of functions, constrained optimization, search techniques, linear and nonlinear optimization, applications to applied problems.

**CSC 596 Special Readings.** 1-3, F,S.

Prerequisite: CSC 325 and permission of department head. Periodic conferences with an advisor are required. May be repeated to a total of 6 hours.

*The following courses are open only to graduate students.*

**CSC 625 Computer Graphics.** 3(3-0) F.

Prerequisite: CSC 232 and MTH 215. An introduction to computer graphics, with an emphasis on application programming. Algorithms for two dimensional graphics, including windowing, clipping, and transformations; algorithms for three dimensional graphics, including viewing, transformations, and removal of hidden lines and surfaces. Data structures for graphics and interactive techniques will be stressed. May be taught concurrently with CSC 425; if so, students in CSC 625 will do additional work beyond that required for CSC 425. Cannot receive credit for both CSC 425 and CSC 625.

**CSC 635 Data Mining.** 3(3-0) D.

This course studies the emerging technology of data mining - the automated extraction of patterns and information from data. The focus will be on understanding the algorithms underlying data mining and on the practical use of those algorithms. Students will use data mining software to analyze collections of data. May be taught concurrently with CSC 435. Cannot receive credit for both CSC 635 and CSC 435.

**CSC 640 Artificial Intelligence.** 3(3-0) S.

Prerequisite: CSC 325 or permission. Techniques of artificial intelligence, including study of expert systems, natural language processing, search strategies, computer vision and robotics. May be taught concurrently with CSC 440; if so, students in CSC 640 will do additional work beyond that required for CSC 440. Cannot receive credit for both CSC 440 and CSC 640.

**CSC 645 Computer Speech, Music and Images.** 3(3-0) D.

This is an applied course focusing on the technical aspects of computer-based multimedia—speech, music, audio, and video. In any given semester, the focus may be more on audio or image processing, or it may be equally balanced between the two. Topics include multimedia data capture and representation, methods of data compression, multimedia information retrieval, and multimedia standards. May be taught concurrently with CSC 445. Cannot receive credit for both CSC 645 and CSC 445.

**CSC 665 Computer Networks.** 3(3-0) S.

Prerequisite: CSC 232. An introduction to the theory, concepts and techniques upon which modern computer networks and telecommunication systems are based. The emphasis will be on layered network architectures, the design frameworks for both local and wide area networks and communication protocols. May be taught concurrently with CSC 465; if so, students in CSC 665 will do additional work beyond that required for CSC 465. Cannot receive credit for both CSC 465 and CSC 665.

**CSC 687 Computing for Bioinformatics.** 3(3-0) D.

Prerequisite: any one of CSC 121, CSC 125, CSC 131, CSC 232, BMS 231, BIO 235, or CHM 350. This course focuses on computational techniques used in bioinformatics. Topics will include nucleotide and amino acid data representation, sequence alignment, coding sequence prediction, and use of statistical models. Students will learn to use bioinformatics libraries with a script language such as Python or Perl. May be taught concurrently with CSC 487; if so, students in CSC 687 will do additional work beyond that required for CSC 487. Cannot receive credit for both CSC 487 and CSC 687.

**CSC 690 Advanced Topics in Computer Science.** 1-4, D.

Detailed consideration of advanced topics in the field of Computer Science. Topics will change, and this course may be repeated with differing topics. May be taught concurrently with CSC 490. Cannot receive credit for both CSC 690 and CSC 490.

**CSC 698 Research in Computer Science.** 1-4, F,S.

Prerequisite: permission of department head. Supervised research in computer science. May be repeated, but no more than 6 hours may count toward the Master of Natural and Applied Science degree.

**CSC 699 Thesis.** 1-6, D.

Prerequisite: permission of instructor. Independent research and study connected with preparation of thesis. No more than 6 hours may count toward the Master of Natural and Applied Science degree.

## Environmental Sciences and Policy Program

142 Temple Hall, Phone: 836-5249, FAX: 836-6934

Email: [CollegeofNaturalandAppliedSciences@missouristate.edu](mailto:CollegeofNaturalandAppliedSciences@missouristate.edu)

**Coordinator:** Professor William H. Cheek, Ph.D.

### Minor

#### Environmental Sciences and Policy

##### Bachelor of Arts

##### Bachelor of Science

The minor in Environmental Sciences and Policy consists of 20-23 credit hours. It is interdisciplinary and will permit students in various fields to complement their academic major with a minor emphasizing Environmental Sciences and Policy.

##### A. Natural Science Courses: (9-11 hours)

1. BIO 369 General Ecology (4) or GRY 351 Conservation of Natural Resources (2)
2. CHM 225 Principles of Environmental Chemistry (3) or CHM 425 Environmental Chemistry (3)
3. GLG 171 Environmental Geology (4)\*

##### B. Social Science Courses: (6 hours)

1. ECO 540 Economics of the Environment (3)
2. Select one course from: GRY 108 Ecology and Society (3)\* or PHI 302 Environmental Ethics (3) or PLS 555 Public Policy for a Global Environment (3)

##### C. Environmental Regulation: (3 hours)

1. RIL 537 Environmental Regulation (3)

##### D. Electives: Select one of the following courses (in addition to courses used in A, B, or C) (2 or 3 hours)

- AGA 105 Soils and Crop Science (3)
- AGA 335 Soil Conservation and Water Management (3)
- GRY 108 Ecology and Society (3)
- GRY 351 Conservation of Natural Resources (2)
- RIL 539 Legal Regulation of International Commerce (3)
- PHI 302 Environmental Ethics (3)
- PLN 574 Open Space and Recreation Planning (3)
- PLS 555 Public Policy for a Global Environment (3)
- SOC 505 Population Analysis (3)

Recommended: At least one statistics course.

*\*GLG 171 partially fulfills the Natural World general education requirement*

*\*GRY 108 partially fulfills the Culture and Society general education requirement*

#### Administration of Minor

The Environmental Sciences and Policy minor is administered by the College of Natural and Applied Sciences with the Dean, or his/her designate, serving as program coordinator. Courses must be approved by the faculty on the Environmental Focus Committee for inclusion in the minor. The coordinator must approve the course of study for each student who wishes to complete the minor.

## Department of Geography, Geology, and Planning

363 Temple Hall, Phone: 836-5800, FAX: 836-6006

Email: [Geography@missouristate.edu](mailto:Geography@missouristate.edu)

**Department Head:** Professor Thomas G. Plymate, Ph.D.

**Professors:** John Catau, Ph.D.; William H. Cheek, Ph.D.; William T. Corcoran, Ph.D.; Dimitri Ioannides, Ph.D.; Erwin J. Mantei, Ph.D.; Kevin Mickus, Ph.D.; James F. Miller, Ph.D.; Paul A. Rollinson, Ph.D.; Burl E. Self, Jr., Ed.D.

**Associate Professors:** Rex G. Cammack, Ph.D.; Melida Gutierrez, Ph.D.; Rajinder S. Jutla, Ph.D.; Judith L. Meyer, Ph.D.; Robert T. Pavlowsky, Ph.D.; Charles W. Rovey, Ph.D.; Yongwei Zhang, Ph.D.

**Assistant Professors:** Mario Daoust, Ph.D.; Kevin R. Evans, Ph.D.; Diane M. May, M.S.; Monika Moskal, Ph.D.

**Lecturers:** Alice Jill Black, Ph.D.; Deborah Corcoran, M.S.

**Adjunct Professors:** Tom Aley, Ph.D.; Christopher Howell, Ph.D.; Garret Rowell, Ph.D.

**Emeritus Professors:** David A. Castillon, Ph.D.; Charles D. Collins, M.S.; Stanley C. Fagerlin, Ph.D.; Russel L. Gerlach, Ph.D.; Elias Johnson, Ph.D.; Julius A. Kovats, Ph.D. (West Plains); Vincent E. Kurtz, Ph.D.; Donald H. McInnis, Ph.D.; Thomas D. Moeglin, Ph.D.; Milton D. Rafferty, Ph.D.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Earth Science Education, B.S.Ed., Secondary Education/Earth Science and Secondary Education/Geography, M.S.Ed.; and Planning Accreditation Board (PAB) – Planning, B.S.

### Credit By Examination

Credit for GRY 100 is available for the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information. Credit for GRY 275 is available by passing a departmental examination. See the department for information.

### General Education Courses

GLG 358 may be used to meet Writing II, Basic Required Courses; GLG 110, 115, 171, GRY 135, or 142 may be used to partially fulfill the Natural World Area of Inquiry; and GRY 100, 108 or PLN 100 may be used to meet the Social Sciences Perspective of the Culture and Society Area of Inquiry of the General Education requirements.

### Notes

Geology majors wishing to emphasize paleontology should minor in biology.

## Majors

### Earth Science Education

#### Bachelor of Science in Education (Certifiable grades 9-12)

- A. General Education (see General Education section of catalog) The following required courses can be used to meet both General Education and Major Requirements: BIO 102(4); MTH 138(5), or MTH 135(3) and MTH 181(3), or MTH 261(5) or MTH 287(3); AST 115(4) or CHM 105(4) or GLG 110(4) or GRY 135(4) or PHY 100(4)
- B. Major Requirements
1. Core (25 hours): GLG 110(4), 314(5), 318(3), 412(4); GRY 135(4), 348(3), 351(2)
  2. Major Electives (3 hours): Select 3 additional hours from any GLG course numbered 171 or above in consultation with advisor
  3. Related Requirements (23-26 hours): AST 115(4); BIO 102(4); CHM 105(5); PHY 100(4); MTH 138(5), or MTH 135(3) and 181(3) or MTH 261(5) or MTH 287(3); SCI 505(3)

C. Professional Education Courses (33 hours): SCI 414 (3), SCI 493(6), SCI 494(6) and see “Academic Programs and Requirements/Secondary Education” section of catalog

D. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all coursework attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a “C” in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### Geography (Non-Comprehensive)

#### Bachelor of Arts

- A. General Education (see General Education section of catalog)
- B. Major Requirements (36 hours)
1. GRY 100(3) or 108 (3); GRY 142(4), 305(3), 363(4), 367(3), 470(3), 498(1)
  2. Related requirements. One statistics course from the following: AGR 330(3), ECO 308(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 331(3) or SOC 302(3)
  3. Select additional geography electives (12 hours with GRY or PLN prefix) to bring total in geography to 36 hours
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see “Academic Programs and Requirements” section of catalog)
- E. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Geography (Non-Comprehensive)

#### Bachelor of Science

- A. General Education Requirements (see “Academic Programs and Requirements/General Education” section of catalog)
- B. Major Requirements (39-46 hours)
1. Core Requirements (21 hours): GRY 100(3) or GRY 108(3); GRY 142(4), 305(3), 363(4), 367(3), 470(3), 498(1)

2. Related Requirements (3 hours): AGR 330(3) or ECO 308(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 331(3) or SOC 302(3)
3. Complete one of the following options:
  - a. **Environmental and Natural Resources** (22 hours)
    1. GRY 135(4), 348(3), 351(2), 535(3), 561(3); GLG 110(4) or GLG 171(4)
    2. Complete one course in cultural or economic geography: GRY 310(3), 320(3), 321(3), 322(3), 323(3), 566(3). Recommended supplementary courses: CHM 105(5) or CHM 160(4); AGR 215(3); BIO 134(4); GRY 597(1-5). Students should select a minor in science, mathematics, agriculture, or an approved personalized minor.
  - b. **General** (15 hours)
    1. GRY 300(3)
    2. Complete 12 additional electives with GRY or PLN prefix
  - c. **Travel Geography** (21 hours)
    1. GRY 308(3), 310(3), 324(3), 326(3), 410(3), 510(3); PLN 325(3). Recommended supplementary courses: HRA 410(3); REC 152(3), 390(3), 422(3). Students should select a minor in general business, management, marketing, or a foreign language.
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Geology (Comprehensive) Bachelor of Science

This degree program is designed for those who wish to seek employment as geologists or to seek admission to graduate school in geology or related fields.

- A. General Education (see General Education section of catalog)
- B. Major Requirements (79-86 hours)
  1. GLG 110(4) or both GLG 171(4) and GLG 172(1); GLG 314(5), 332(4), 333(4), 340(4), 351(3), 358(3), 413(6) or equivalent Field Geology course, 415(4), 570(4)
  2. GLG 472(3) or 590(3)
  3. Select a minimum of nine additional hours of GLG courses numbered 326 or higher, but not to include more than 4 hours of GLG 360
  4. Related Requirements (26-32 hours): GRY 348(3); CHM 160(4), 170(3), 175(2); MTH 261(5) and 280(5), or MTH 287(3) and 288(3); PHY 123(4) and 124(4), or PHY 203(5) and 204(5)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Geology (Non-Comprehensive) Bachelor of Science

This degree program is designed for those who do not wish to pursue a career as a professional geologist through employment or admission to graduate school, but who wish to study geology for other reasons.

- A. General Education (see General Education section of catalog)
- B. Major Requirements (55 hours)
  1. GLG 110(4) or both 171(4) and 172(1); GLG 314(5), 332(4), 333(4), 570(4)
  2. GLG 340(4) or 415(4)
  3. GLG 358(3)
  4. GLG 412(4) or 413(6) or equivalent field geology course
  5. Select one of GLG 472(3), 480(3), 530(3), 540(3), 573(3), 581(4), 590(3)
  6. Select elective courses to total a minimum of 46 hours from the following: GLG courses numbered 318 or higher, not to include more than 4 hours of GLG 360; GRY 348, 363, 551, 566
  7. Related Requirements (9 hours): CHM 160(4), 170(3), 175(2)

- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Geospatial Sciences (Comprehensive) Bachelor of Science

- A. General Education Requirements (see "Academic Programs and Requirements/General Education" section of catalog)
- B. Major Requirements (65-67 hours)
  1. GRY 100(3) or 108(3); GRY 142(4) or GLG 110(4); GRY 275(3); GRY 300(3) or 301(3) or 305(3); GRY 360(3), 363(4), 367(3), 470(3), 498(1), 551(3), 552(3), 560(3), 561(3), 566(3); CSC 121(3) or CSC 125(3) or CIS 260(3); MTH 181(3) or 138(5); MTH 340(3) or AGR 330(3) or ECO 308(3) or PSY 200(3) or QBA 237(3) or REC 331(3) or SOC 302(3)
  2. Complete 14 additional hours from the following: GRY 300(3) or 301(3) or 305(3); GRY 320(3), 321(3), 322(3), 323(3), 348(3), 351(2), 375(3), 377(3), 379(3), 507(3), 553(2), 563(3), 575(3); IDM 110(3), 211(3); MTH 261(5) or 287(3); MTH 280(5) or 288(3); CIS 270(3), 321(3), 324(3), 326(3), 528(3); CSC 131(3), 232(3), 335(3), 425(3). NOTE: Students who select a surveying emphasis must take GRY 375(3), 377(3), 379(3).
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Planning (Comprehensive) Bachelor of Science

- A. General Education (see General Education section of catalog)
- B. Major Requirements (69-70 hours)
  1. PLN 271(3), 367(3), 372(3), 400(3), 576(4), 599(3); GRY 100(3) or 108(3); GRY 142(4) or GLG 110(4); GRY 321(3), 322(3), 363(4); ECO 155(3), SOC 150(3); MTH 340(3) or one of: AGR 330(3), ECO 308(3), PSY 200(3), QBA 237(3), REC 331(3), SOC 302(3)
  2. Complete one of the following options:
    - a. **Community and Regional Planning (25 hours)**
      1. PLN 470(3), 471(3), 472(4); PLS 351(3); SOC 505(3)
      2. Select an additional 9 hours from the following (at least 5 hours to be selected from GRY or PLN courses): PLN 325(3), 405(3), 574(3), 596(1-3), 597(3), 599(1-3); GRY 310(3), 320(3), 348(3), 351(2), 360(3), 410(3), 470(3), 510(3), 551(3), 560(3), 561(3), 566(3); RIL 266(3); PLS 255(3), 354(3); ECO 450(3); HST 515(3)
    - b. **Tourism Planning and Development (24 hours)**
      1. GRY 310(3), 410(3), 510(3); PLN 325(3), 470(3), 574(3)
      2. Select an additional 6 hours from the following (at least 5 hours to be selected from GRY or PLN courses): PLN 405(3), 470(3), 471(3), 472(4), 596(1-3), 597(3), 599(1-3); GRY 320(3), 324(3), 326(3), 348(3), 351(2), 360(3), 551(3), 560(3), 561(3), 566(3); REC 152(3), 390(3), 422(3); HRA 410(3); ECO 540(3); HST 515(3)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Minors

#### Community and Regional Planning Bachelor of Science

PLN 271(3), 367(3), 372(3), 470(3), 471(3), 472(4); GRY 322(3)

**Geography****Bachelor of Arts****Bachelor of Science****Bachelor of Science in Education  
(Non-Certifiable)**

GRY 100(3), 142(4), 321(3), 351(2); plus additional upper division electives in GRY or PLN to total at least 18 hours.

**Geology****Bachelor of Arts**

GLG 110(4) or both GLG 171(4) and 172(1); GLG 314(5); four hours of GLG 360(1-3) or 412(4); plus 3 additional hours of GLG courses numbered 318 or higher.

**Geology****Bachelor of Science**

GLG 110(4) or both GLG 171(4) and 172(1); GLG 314(5); four hours of GLG 360(1-3) or 412(4); plus 6 additional hours of GLG courses numbered 318 or higher.

**Geospatial Sciences****Bachelor of Science**

GRY 142(4) or GLG 110(4); GRY 360(3) or GLG 351(3); GRY 363(4), 551(3), 561(3); plus complete three hours from GRY 552(3), 560(3), 563(3), 566(3), 575(3). NOTE: Students majoring in geography must complete nine hours of the following to avoid overlap with the major degree requirements: GRY 552(3), 560(3), 563(3), 566(3), 575(3).

**Global Studies****Bachelor of Arts****Bachelor of Science**

GRY 100(3); GRY 320(3) or 323(3); GRY 363(4) or 367(3); Plus nine additional hours in regional geography courses: GRY 305(3), 308(3), 507(3).

Note: GRY 305(3) is a variable content course that may be repeated with new content.

**Tourism and Travel****Bachelor of Arts****Bachelor of Science**

GRY 100(3), 308(3), 310(3), 324(3), 326(3); PLN 325(3)

**University Certificates – Undergraduate****Geographic Information Sciences**

The certificate in Geographic Information Sciences provides an 18 hour undergraduate level program for students and professionals who desire credentials in this area.

**Admission Requirements**

A. 2.50 Missouri State cumulative GPA

B. Minimum of 30 credit hours

**Required Courses (18 hours)**

A. GRY 551(3), 561(3), 563(3), 566(3)

B. 6 additional hours from: GRY 360(3), 363(4), 470(3), 552(3), 553(2), 560(3)

**GPA Requirement**

Attain a 2.75 GPA in required courses

**Planning and Development**

The certificate in Planning and Development provides a 13 hour undergraduate level program for city employees (including city administrators), planning commissioners, council members, developers, and other practitioners who wish to familiarize themselves with the basics of the planning profession. Students interested in obtaining this certificate are welcome to enroll.

**Required Courses (13 hours)**

A. PLN 471(3); PLN 472(4) or 576(4)

B. 6 additional hours from: PLN 325(3), 372(3), 470(3), 574(3), 597(3)

**Graduate Programs**

The Master of Science degree offers a major in Geospatial Sciences in Geography and Geology. The Master of Science in Education (secondary education major) offers areas of emphasis in Earth Science and Geography. The Master of Natural and Applied Science degree offers an emphasis area in Geography, Geology, and Planning. See the Graduate Catalog for details.

**Accelerated Master of Natural and Applied Science degree**

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as “mixed credit” and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

**Accelerated Master of Science degree in Geospatial Sciences in Geography and Geology**

Eligible undergraduate students majoring in Geography, Geology, or Geospatial Sciences may apply for preliminary acceptance into the Master of Science degree in Geospatial Sciences in Geography and Geology after admission requirements for this accelerated masters program have been satisfied. If approved, a maximum of 12 hours selected from GRY 551(3), GRY 560(3), GRY 566(3), GLG 573(3), GLG 590(3), GLG 672(3), GLG 680(3), MTH 547(3) may be designated as “mixed credit” and counted toward both the undergraduate and graduate degree programs. This option allows students with advanced work in geography, geology, or geospatial sciences to complete a masters degree in three full semesters and one summer. See the Graduate Catalog or contact the Department of Geography, Geology, and Planning for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Geography Courses

### **GRY 100 Global Issues: Geographic Perspectives.** 3(3-0) F,S.

An examination of the world's geographic regions focusing on the location of Earth's major physical features, human populations and cultures, and their interaction. Topics include natural systems, globalization, ethnic and geopolitical conflicts, and human impacts upon the environment. This course provides both an introduction to geography as a discipline and a basic geographic foundation for those interested in current international issues, politics, history and public affairs.

### **GRY 108 Ecology and Society.** 3(3-0) F,S.

Multidisciplinary problem study of population pressures, environmental degradation and socio-political perils and opportunities, through an integrated approach by a staff drawn chiefly from the natural and social sciences.

### **GRY 135 Atmospheric Science.** 4(3-2) F,S.

An introductory survey of the earth's weather and climate. A description of the physical processes of the atmosphere is followed by a survey of the world's varied climatic regions. The laboratory involves the preparation and interpretation of meteorological data and the classification of climates.

### **GRY 142 Introductory Physical Geography.** 4(3-2) F,S.

A study of the earth's natural systems including weather and climate, rocks and minerals, landforms and processes of landform development, biogeography, water resources and soils. Map fundamentals and the interrelationships of the geographic factors of the natural environment are emphasized. Students who take GRY 240 and GRY 142 may receive credit for only one of these courses.

### **GRY 240 (140) Earth Science for Teachers.** 4(2-4) F,S.

Prerequisite: BIO 100. A course designed to give students an understanding of the processes of science and the basic concepts of earth science using the inquiry approach in hands-on laboratory activities. Content includes maps, earth in space, weather and climate, soils and vegetation, rocks and minerals, landforms, processes of landform development, water resources, environmental relationship to the physical setting. This course is open only to education majors. Does not apply toward the major in Secondary Education. Students who take GRY 240 and GRY 142 may receive credit for only one of these courses.

### **GRY 275 Introduction to Plane Surveying.** 3(2-2) F,S.

Prerequisite: MTH 181 or MTH 138 or permission of instructor. Fundamental concepts of surveying, equipment theory and the use of the tape, compass, level, engineers' transit and theodolite in surveying. Credit by examination is available.

### **GRY 297 (281) Selected Topics in Geography I.** 1(1-0) or (0-2) D.

Course devoted to a single topic that can vary from semester to semester depending on student and faculty interest. Topics are limited to those requiring no prior geography background. Examples: Geography of the Home Community, Geography of Energy Resources, Geography of Sport. Students should check the current registration schedule to determine the topic title for any given semester. Since topics will vary, this course may be repeated, with permission, to a total of 5 hours credit. Variable Content Course.

### **GRY 300 Geography of the United States.** 3(3-0) F,S.

Physical and cultural regions of the United States, including their characteristics and resource utilization. Topics include landforms, climates, natural resources, economic activities, and cultural and political patterns.

### **GRY 301 Geography of the Ozarks.** 3(3-0) S.

Physical and cultural geography of the Ozarks. Surveys basic geology, landforms, soils, vegetation and the geography of settlement, population, major economic activities, lifestyles and the cultural landscape. Emphasis on historical development and spatial distributions. Field trip required.

### **GRY 305 Selected World Regions.** 3(3-0) D.

An in-depth study of selected regions of the world. Examples: Tropical Areas, Arid Regions, Polar Regions, Pacific Islands, Australia and New Zealand. Surveys geology, landforms, soil, vegetation, climate, settlement, population, economic activities and the cultural landscape. The course will be devoted to a single region that can vary from semester to semester. Students should check the current registration schedule to determine the topic title for any given semester. Since topics vary, the course may be repeated with permission. Variable Content Course.

### **GRY 308 Geography of World Tourism.** 3(3-0) S.

A systematic description and analysis of the world's major tourism destination regions including coastal zones, alpine areas, interior lakes and waterways, cities, and cultural attractions. Geographic and economic factors affecting the development of tourism regions are considered.

### **GRY 310 Fundamentals of Tourism.** 3(3-0) F,S. (Identical with REC 320)

Geographical and recreational elements of tourism and travel including social, economic, environmental and political factors. Career options will be identified. Students participate in tourism research projects. One field trip may be required. Team taught by Geography and Recreation and Leisure Studies faculty.

### **GRY 315 Service Learning in Geography.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a Geography course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Geography to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

### **GRY 316 Medical Geography.** 3(3-0) F.

An examination of health and disease from a geographic perspective. Topics include disease ecology, environmental hazards, and spatial analysis of health care resources.

### **GRY 320 Cultural Geography.** 3(3-0) F.

Geographic patterns and interpretations of man's imprint on the natural landscape; material and nonmaterial elements of culture. Population, settlement, agriculture, language, race, religion, and man's interrelationships with his natural surroundings and the resulting patterns of adjustment.

### **GRY 321 (110) Economic Geography.** 3(3-0) S.

Prerequisite: 30 hours or permission of instructor. Location, distribution and extent of world economic activity. Topics include resource extraction, agriculture, manufacturing, retailing, and services.

### **GRY 322 Urban Geography.** 3(3-0) F.

With an emphasis on patterns, this course documents the growth of cities, the reasons for that growth, presents models of urban structure, describes transportation systems, residential concentration, and commercial activities. Finally, current urban problems are identified.

### **GRY 323 World Political Geography.** 3(3-0) S.

Major political problems of the world as related to geographic factors; regional blocs, strategic areas and disputed zones.

### **GRY 324 Travel Agency Procedures and Management.** 3(3-0) F.

An introduction to the history of travel agencies, travel related government agencies, ticket-writing, reference materials, and travel agency procedures.

### **GRY 326 Travel Agency Practicum.** 3(1-5) F,S.

Practicum experience in the travel industry. Training experiences will include computer airline reservation systems, advertisement and sell-



ing, building and pricing reservations for airlines, automobile rentals, and hotels. Students will select three areas for emphasis from the following list of travel specializations: adventure, leisure, corporate, incentive, and motorcoach. Practicum experience will be in agencies in the Springfield metro area.

**GRY 348 Geomorphology.** 3(2-2) F.

Prerequisite: GRY 142 or GLG 110 or GLG 171 and GLG 172. Processes of landform development. Erosional and depositional environments created by water, wind, and ice. Hazards and limitations associated with various landforms. Field trips required.

**GRY 351 Conservation of Natural Resources.** 2(2-0) F,S.

Prerequisite: 30 hours or permission of instructor. An examination of the laws of the natural environment followed by an analysis of conservation issues and problems that occur in response to human use of the natural environment. Emphasis on the conservation issues and problems in Missouri. Field trip required.

**GRY 353 Environmental Field Studies.** 1(0-2) D.

Prerequisite: permission of instructor. Field methods in environmental science. Mapping the physical variables of the natural environment to develop an understanding of the interrelationships between geology, landforms, soils, vegetation and climate. Field trips required.

**GRY 360 Interpretation of Aerial Photography.** 3(2-3) F.

Prerequisite: 30 hours or permission of instructor. Detection, identification, and analysis of objects or features from film and digital aerial photography and other types of high resolution remotely sensed images. Laboratory emphasizes manual and digital image interpretation for land cover mapping, forestry, agriculture, geology, and planning applications. Field trip is required.

**GRY 363 Principles of Cartography.** 4(3-4) F, S.

Prerequisite: GRY 100 or GRY 321 or GLG 110. Introduction to mapping concepts in cartography. Map projections, coordinate systems, processing data, compilation, map design, and typography. Construction of general and thematic maps. Field trip is required.

**GRY 367(467) Research Methods in Geography and Planning.** 3(3-0) S. (Identical with PLN 367)

Prerequisite: MTH 340 or one of AGR 330 or ECO 308 or PSY 200 or QBA 237 or REC 331 or SOC 302. With emphasis on applications of descriptive and inferential statistics this course will introduce methods of sampling procedures, collecting, organizing, interpreting and analyzing data related to geography and planning. This course will also include computer applications. Cannot receive credit for both GRY 367 and PLN 367.

**GRY 375 Advanced Plane Surveying.** 3(1-4) S.

Prerequisite: GRY 275. Office and field techniques used in route surveying including circular, transitional and parabolic curves. Topographic mapping applications, slope stake and earthwork computations. Field astronomy, state plane coordinates, boundary control and USPLS surveys.

**GRY 377 Legal Aspects of Boundary Surveying.** 3(3-0) S. Prerequisite: GRY 375. The legal principles of surveying: Missouri surveying law, Boundary Control, and the role of the surveyor within the judicial frame work of the court system.

**GRY 379 Surveying Computations.** 3(3-0) S.

Prerequisite: GRY 375. Computations in horizontal control networks, projections including Universal Transverse Mercator and State Plane Coordinates, Practical Astronomy, and Global Positioning Systems.

**GRY 397 (381) Selected Topics in Geography II.** 1(1-0) or (0-2) D. Course devoted to a single topic that can vary from semester to semester depending upon student and faculty interest. Topics generally require previous training in geography. Examples: Geography of Water Resources, Tornadoes and other Violent Storms. Students should check the current registration schedule to determine the topic title for any given semester. Since topics will vary, this course may be repeated, with permission, to a total of 5 hours credit. Variable Content Course.

**GRY 399 (373) Internship in Geography.** 1-3 F,S.

Prerequisite: permission of department head. Work experience in geography. Students have periodic conferences with geosciences department faculty and supervisory personnel of the employing business or agency. May be repeated to a maximum of 6 hours.

**GRY 410 The Travel Industry.** 3(3-0) F.

Prerequisite: GRY 310 or permission of instructor. Study of the structure and organization of the travel and tourism industry. Both private sector components of the travel industry and governmental organizations will be emphasized.

**GRY 470 Field Study in Geography.** 3(1-4) D.

Prerequisite: GRY 363 and GRY 367 and permission of instructor. Methods and techniques for collecting and processing field data in Geography. During the course, students will research, collect and analyze data. The research focuses on a geography issue or issues affecting a geographical location. Travel to field location is required. Some travel may be outside the United States. Students should check with the department head at the start of each academic year to learn about the different field studies scheduled throughout the year. Course fee.

**GRY 496 (494) Readings in Geography.** 2(1-2) F,S.

Prerequisite: permission of department head. Selected readings and reports on geographical literature. May be repeated to a total of 4 hours.

**GRY 497 (499) Special Topics in Geography.** 1-3, F,S.

Prerequisite: permission of department head. Open to departmental majors and minors. Outstanding students obtain additional experience through guided independent study in geography. May be repeated to a total of 5 hours.

**GRY 498 (482) Placement Seminar in Geography, Cartography and Planning.** 1(1-0) F,S.

Prerequisite: 90 hours or permission of instructor. Readings and discussion of current trends in geography, cartography, and planning with consideration given to future employment. A senior assessment evaluation is included in this course.

**GRY 507 (307) Geography of Sub-Saharan Africa.** 3(3-0) D.

An in-depth geographic study of Africa south of the Sahara Desert. Surveys physical and political geography, climate, tribalism, religion, demography, natural resources, transportation, industry and economic activities of African states South of the Sahara. Students enrolled for graduate credit are required to complete two research projects. Students enrolled for undergraduate credit are required to complete one research project.

**GRY 510 Tourism and Sustainability.** 3(3-0) S.

Prerequisite: GRY 310 or permission. Study of sustainability issues associated with tourism development. Attention paid to the conflicting agenda of society's various stakeholders and the need to reconcile environmental, economic, and sociocultural concerns. Emphasis also placed on policy implications.

**GRY 535 (335) Climatology and Global Climate.** 3(3-0) D.

Global climatological data and principles of biological, sociological and climatological methods. Causes and impacts of economic problems, climate and climate change.

**GRY 548 Fluvial Geomorphology.** 3(3-0) S.

Study of the formation, composition, distribution of fluvial landforms. Emphasis is on channel hydrology, quantification of geomorphic relationships, reach and watershed-scale processes, sediment transport, water and sediment contamination, and management applications to streams in the Ozarks Region as well as other places. Field work may be required.

**GRY 551 (RPL) Remote Sensing.** 3(2-2) S.

Prerequisite: GRY 360 or GLG 351. Introduction to environmental studies through the application of remotely sensed imagery and geospatial technologies. The course covers principals of remote sensing, interactions of electromagnetic energy with the atmosphere and earth's sur-

face, satellite systems and sensors (electro-optical, thermal, radar and lidar). Emphasis is placed on regional and global monitoring, land cover mapping, forestry, agriculture, geology, planning and oceanography. Laboratory emphasizes interpretation of remotely sensed imagery and introduction to digital image processing including enhancements, corrections and classification routines.

**GRY 552 (GLG) Photogrammetry.** 3(1-4) S.

Prerequisite: permission of instructor. Course covers basic concepts of photogrammetry through the utilization of aerial photographs and digital imagery to obtain accurate stereo models for topographic maps. Laboratory emphasizes geospatial stereo feature extraction using 3D digital displays.

**GRY 553 Analytical Photogrammetry and Digital Cartography.** 2(0-4) S.

Prerequisite: GRY 552 or permission of instructor. Individualized instruction on the analytical stereoplotter-digitizer-interactive graphics editing system.

**GRY 560 Thematic Mapping.** 3(1-4) F.

Prerequisite: GRY 363 or permission of instructor. Special purpose mapping of chosen topics. Emphasis will be on good graphic communication by means of maps.

**GRY 561 (RPL 562) Introduction to Geographic Information Systems.** 3(2-2) S.

Prerequisite: GRY 363 or permission of instructor. Basic principles and applications of Geographic Information Systems (GIS). Examines the nature and accuracy of spatially referenced data, as well as methods of data capture, storage, retrieval, visualization and output.

**GRY 563 Analytical and Automated Geographic Information Science.** 3(2-2) F.

Prerequisite: GRY 363 and GRY 561, and either CIS 202 or CSC 121 or CSC 125 or permission of instructor. Course devoted to theories and processes of analytical and automated Geographic Information Science (GIS). Principal topics covered are spatial programming, geographic data storage, computer map rendering, application customization and automation and human interface development of GIS. Advanced GIS and programming skills for professional development are emphasized.

**GRY 566 (RPL) Advanced Geographic Information Systems.** 3(2-2) F.  
Prerequisite: GRY 561. A theoretical and practical examination of analytical methods use in GIS, including vector and raster models, spatial overlay, incorporation of field data, analysis of surfaces, interpolation, TINs and network analysis.

**GRY 575 Satellite Surveying and Navigation.** 3(1-4) F.

Prerequisite: GRY 363 or permission of instructor. Theory and operation of satellite-based positioning systems. Includes mission planning, measurement of point, line and area features, differential correction techniques and waypoint navigation. Field trips required.

**GRY 596 (586) Topical Issues in Education.** 1-5, D.

Prerequisite: permission of department head. Selected topics in geography and earth science to upgrade understandings and skills in improvement of elementary or secondary teaching. Each course is concerned with a single topic or subject matter area. Number of class hours determined by semester hours of credit. May be repeated to a total of 5 hours credit. Variable Content Course. A course fee may be charged for selected sections.

**GRY 597 (548) Special Topics in Geography.** 1-5, D.

Prerequisite: permission of instructor. Selected topics in geography. Special topics will be included in the class schedule for each term. Field trips may be required. Number of class hours determined by semester hours of credit. May be repeated to a maximum of 6 hours credit. Variable Content Course.

**GRY 599 Research in Geography.** 1-3, F,S.

Prerequisite: permission of instructor. Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated for a total of 6 credit hours.

*The following courses are open only to graduate students.*

**GRY 600 Cultural Geography for Secondary Teachers I.** 3(2-2) D.  
Population and the spatial imprint of man on the landscape in terms of settlement, economic activities, institutions; methods and materials of the high school geography project; other current curriculum materials.

**GRY 603 Cultural Geography for Secondary Teachers II.** 3(2-2) D.  
Prerequisite: GRY 600. Continuation of GRY 600. Contemporary problems in land use, urbanization and planning for optimum use of resources; methods and materials of the high school geography project; other current curriculum materials.

**GRY 630 Weather Elements for Secondary Teachers.** 3(3-0) D.  
Physical processes of the earth's atmosphere, use of weather instruments and interpretation of weather maps. Applied aspects of weather and climate and their effects on man's activities. Emphasis on current curriculum materials for secondary schools.

**GRY 640 Selected Topics in Earth Science.** (Identical to GLG 665) 3(2-2) D.

Prerequisite: permission of instructor. Students cooperatively select from general subject areas in earth science more specific areas to explore. Topics are studied consecutively during the semester. Subject areas from which the topic selections will be made are included in the class schedule for each term the course is offered.

**GRY 648 Physiography and Resource Conservation.** 3(2-2) D.  
Landforms, economic minerals, soils, climate, water resources and closely related aspects of the natural environment as they relate to man's inhabitation and use of the earth; map reading and simple map construction; methods and materials for secondary schools.

**GRY 699 Thesis.** 1-6, F,S.

Prerequisite: permission of department head. Independent research and study connected with preparation of thesis.

## Geology Courses

**GLG 110 Principles of Geology.** 4(3-2) F,S.

How Earth works. The building blocks of Earth: minerals and rocks. Earth's dynamic interior: plate tectonics, earthquakes, volcanism, and mountain building. Surface processes associated with streams, ground water, glaciers, wind, and shorelines. Laboratory instruction in identification of common minerals and rocks, the use of topographic maps, and landform identification from topographic maps. Optional weekend field trips.

**GLG 115 Life of the Past.** 4(3-2) F.

Origin, evolution, and major extinctions of life forms set in the context of 3.5 billion years of earth history. Discussion of plants, invertebrate animals, and vertebrates (emphasizing dinosaurs and mammals). Laboratory exercises acquaint the student with representatives of the major fossil groups. Optional fossil collecting trip. Credit may not be applied toward any major or minor in geology.

**GLG 171 Environmental Geology.** 4(4-0) F,S.

Treats those aspects of geology that interface directly with humanity. Past, present and future of geologic hazards, geologically related environmental health problems, mineral resources and energy resources. Human dependence on geologic resources is examined and interrelated with problems of humanity. Field trips required.

**GLG 172 Physical Geology Laboratory.** 1(0-2) F,S.

Prerequisite: GLG 171 or permission. Laboratory instruction in identification and classification of common minerals and rocks; introduction to the identification of landforms as interpreted from topographic maps. This course number allows students who have already had GLG 171 to take a laboratory section of GLG 110 as a stand-alone one credit course. GLG 171 plus GLG 172 will substitute for GLG 110 in the requirements for all geology programs and in the prerequisites for all upper division geology courses.

**GLG 197 (121) Popular Topics in Geology.** 1-3 D.

Course devoted to a single topic that can vary from semester to semester depending on student and faculty interest. Topics are limited to those requiring no prior geology background. Examples: Earthquakes and Volcanoes, Rocks and Minerals, Caves and Karst, etc. Students should check the current registration schedule to determine the topic title for any given semester. Because topics vary, this course may be repeated, with permission of the instructor to a total of 10 credits. Credit may not be counted toward any major or minor in Geology. Variable Credit and Variable Content Course.

**GLG 314 Historical Geology.** 5(3-4) F.

Prerequisite: GLG 110 or both GLG 171 and GLG 172. Geological history of the earth with emphasis on North America; origin and evolution of animal and plant life on earth. One Saturday field trip required.

**GLG 318 Physical Oceanography.** 3(3-0) S.

Prerequisite: GLG 110 or both GLG 171 and GLG 172. A comprehensive study of the physical ocean; including the origin and nature of tides, waves, and ocean currents; marine geology, resources and pollution.

**GLG 326 Marine Science I: Oceanography.** 3(3-0) Su.

Prerequisite: MTH 135 and CHM 160 and CHM 170 and CHM 175 and BIO 102. Integrates physical, chemical, biological, and geological oceanography to provide a multidisciplinary approach to the fundamentals of oceanography. (Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.)

**GLG 327 Marine Science I: Oceanography Lab.** 2(0-4) Su.

Prerequisite: concurrent enrollment in GLG 326. Laboratory portion of GLG 326. Field and laboratory activities. (Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.)

**GLG 330 Service Learning in Geology.** 1, F, S.

Prerequisite: 30 hours and permission of instructor and concurrent registration in a Geology course designated as a service geology offering. This service component for an existing course incorporates community service with classroom instruction in geology to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignment will vary depending on the specific course topic and learning objectives; students should investigate possible placements, available through the Department of Geography, Geology and Planning and the Office of Citizenship and Service Learning prior to registration. No more than two hours of service learning may count toward graduation. Graded Pass/Not Pass only.

**GLG 332 Mineralogy.** 4(2-4) F.

Prerequisite: GLG 110 or both GLG 171 and GLG 172; and CHM 160; and MTH 135 or MTH 138 or MTH 261 or MTH 287. Origin, classification, description, and identification of ore minerals and rock-forming minerals.

**GLG 333 Petrology.** 4(2-4) S.

Prerequisite: CHM 170 and CHM 175 and GLG 332. Origin, classification, and identification of common rocks. A grade of "C" or better is required in this course in order to take GLG 413. This course may not be taken Pass/Not Pass.

**GLG 340 (320) Structural Geology.** 4(3-2) F.

Prerequisite: GLG 314 and GLG 333; and either MTH 261 or MTH 287 and either PHY 123 or PHY 203 recommended. Elementary theory of stress and strain, rock behavior, continuous structures, fracture theory, discontinuous structures, and kinematics of plate motion. A grade of "C" or better is required in this course in order to take GLG 413. This course may not be taken Pass/Not Pass.

**GLG 350 Speleology.** 3(2-2) F.

Prerequisite: GLG 110 or both GLG 171 and GLG 172, or permission of instructor. Caves, karst and cavernous terrain, their origin, geologic environment and evolution. Field trips and field research required.

**GLG 351 Photogeology.** 3(1-4) S.

Prerequisite: GLG 340. Geologic interpretation of aerial photographs. Laboratory work includes field photointerpretation projects.

**GLG 358 Writing II: Reporting Geological Information.** 3(1-4) S.

Prerequisite: ENG 110 and 30 hours and GLG 314; and either GLG 318 or GLG 332. Techniques and strategies for locating and accessing technical geological information. Preparation of technical reports and presentations on geologic topics with emphasis on the styles and formats of the Geological Society of America and the United States Geological Survey.

**GLG 360 Directed Field Trips.** 1-3, D.

Prerequisite: permission of instructor. Geologic field trips to areas of special interest. Because credit and destinations vary, the course may be repeated to a total of 8 credits. However, no more than 4 credits may count toward any Geology major. Graded Pass/Not Pass only. Variable Content Course. Course fee.

**GLG 399 Internship in Geology.** 1-3, F, S.

Prerequisite: permission of instructor. Work experience in geology. Students have periodic conferences with geology faculty and supervisory personnel of the employing business or agency. May be repeated to a maximum of 3 hours.

**GLG 412 Field Geology of the Midcontinent Region.** 4(2-4) Su.

Prerequisite: GLG 314 and permission of instructor. Regional geology of the Midcontinent including the Ozark, Wichita, Arbuckle, Ouachita and Boston Mountains, and associated basins. Field methods are introduced; a representative collection of rock samples is made. Course fee.

**GLG 413 Field Geology.** 6, Su.

Prerequisite: GLG 314 and GLG 351 and a grade of "C" or better in both GLG 333 and GLG 340. Use of Brunton compass, Jacob staff, and tape in field methods; aerial photographs and topographic maps in mapping sedimentary, igneous, and metamorphic rocks; demonstration of lithostratigraphic succession and correlation in the field; preparation of geological reports from field data. Taught at off campus field station.

**GLG 415 (315) Invertebrate Paleontology.** 4(2-4) S.

Prerequisite: GLG 314 or permission of instructor. Morphology and taxonomy of invertebrate fossils.

**GLG 472 (572) Geochemistry.** 3(2-2) F.

Prerequisite: GLG 314; and either MTH 261 or MTH 287; or permission of instructor. Aquifer properties; elementary theory of groundwater flow through a porous medium; well and aquifer relationships. Laboratories include ground-water case studies and Hydrologic Investigation Atlas interpretations. Taught concurrently with GLG 672. Cannot receive credit for both GLG 472 and GLG 672.

**GLG 480 (580) Geochemistry.** 3(2-2) FO.

Prerequisites: GLG 332; and either MTH 135 or MTH 138; or permission of instructor. Topics include the dominant chemical reactions in natural waters, equilibrium conditions between mineral precipitation and dissolution, and characteristics of contaminated groundwater. Field trips required. Taught concurrently with GLG 680. Cannot receive credit for both GLG 480 and GLG 680.

**GLG 498 (459) Seminar in Geology.** 2(2-0) D.

Prerequisite: permission of instructor. Lectures and discussions of topics in geology. May be repeated for 4 hours.

**GLG 499 Research in Geology.** 1-3, F, S.

Prerequisite: permission of instructor. Outstanding student obtains enrichment through guided, but independent, original research in geology and geology related subject areas. May be repeated at the discretion of the geology staff to a total of 6 hours.

**GLG 523 Coastal Marine Geology.** 2(2-0) Su.

Prerequisite: undergraduate: 6 credit hours of geology; graduate: 12 credit hours of geology. A study of inshore and nearshore geologic processes, sedimentation patterns and landform development. Concurrent enrollment in GLG 524 required. (Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi).

**GLG 524 Coastal Marine Geology Lab.** 1(0-2) Su.

Prerequisite: concurrent enrollment in GLG 523. Laboratory portion of GLG 523. Field and laboratory activities. (Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi).

**GLG 530 Optical Mineralogy.** 3(1-4) F.

Prerequisite: GLG 333. Essentials of optical crystallography; the use of the petrographic microscope in the identification of rock-forming minerals, both in oil-immersion grain mounts and in thin sections.

**GLG 540 X-Ray Mineralogy.** 3(1-4) F.

Prerequisite: GLG 332 or permission of instructor. Principles and techniques of x-ray mineralogy; the use of x-ray powder diffraction in the identification and characterization of minerals and related crystalline phases.

**GLG 570 Principles of Stratigraphy.** 4(3-2) F.

Prerequisite: GLG 314 and GLG 333. Principles underlying the deposition of sediments; environmental control of lithofacies and biofacies; recognition of ancient depositional environments by key indicators and modern analogs.

**GLG 573 (571) Engineering Geology.** 3(2-2) SE.

Prerequisite: GLG 333, and either MTH 261 or MTH 287; and either PHY 123 or PHY 203. Engineering properties of rocks and soils; fundamentals of rock and soil mechanics; application of properties and fundamentals to engineering problems concerning swelling clays, slope stability, groundwater, and karst areas. Laboratories include engineering classification of soils, soil strength determination, and hydraulic conductivity testing. Field trip to observe engineering problems of karst required.

**GLG 581 Geochemical Techniques.** 4(2-4) SO.

Prerequisite: GLG 332; and either MTH 135 or MTH 138 or equivalent; or permission of instructor. Geochemical techniques and procedures used in ore exploration, point and nonpoint contamination and other environmental studies. Analyses of trace elements in rocks, soils, plants and waters using inductively coupled plasma methods. Also use of GPS to locate sample sites and Arcview to prepare maps. Field trips required.

**GLG 590 Applied Geophysics.** 3(2-2) F.

Prerequisite: GLG 340 (or permission of instructor); and either PHY 124 or PHY 204 (or concurrent enrollment in either); and either MTH 280 or MTH 288 (or concurrent enrollment in either). Application of geophysical methods in solving geologic problems. Techniques covered include seismic refraction and reflection, gravity, magnetics, direct current and electromagnetic resistivity. Field trips required.

**GLG 597 (566) Selected Topics in Geology.** 1-5, D.

Prerequisite: permission of instructor. Detailed treatment of various advanced topics in geology which may vary from year to year. Some typical topics: geologic instrumentation, selenology, sedimentology, and crystallography. Since credit and topics vary, the course may be repeated for a total of 6 hours. Variable Content Course.

***The following courses are open only to graduate students.*****GLG 601 Geology for Secondary Teachers I.** 3(2-2) F.

Prerequisite: permission of instructor. Earth materials, geological processes, geological history and the geological environments.

**GLG 602 Geology for Secondary Teachers II.** 3(2-2) S.

Prerequisite: GLG 601. Continuation of GLG 601.

**GLG 613 Field Geology for Secondary Teachers.** 1-3, D.

Prerequisite: permission of instructor. Field work; identification and correlation of rock units; determination of depositional environments from fossils and other indicators. Students are required to make a collection of specimens from rock formations in the study area. Course may be repeated to a total of 6 hours when destination varies. Course fee.

**GLG 651 Seminar in Geology.** 2(2-0) D.

Prerequisite: permission of instructor. Preparation of an extensive paper on selected topics to be read before staff seminars. Satisfies requirements for Option II (Seminar) for the M.S. in Secondary Education.

**GLG 665 Selected Topics in Earth Science.** (Identical to GRY 640) 3(2-2) F,S.

Prerequisite: permission of instructor. Students cooperatively select from general subject areas in earth science more specific areas to explore. Topics are studied consecutively during the semester. Subject areas from which the topic selections are made are included in the class schedule for each term the course is offered. Since topics vary the course may be repeated for a total of six hours. Variable Content Course.

**GLG 672 Geohydrology.** 3(2-2) F.

Prerequisites: GLG 314; and either MTH 261 or MTH 287; or permission of instructor. Aquifer properties; elementary theory of groundwater flow through a porous medium; well and aquifer relationships. Laboratories include ground-water case studies and Hydrologic Investigation Atlas interpretations. Field trips required. Taught concurrently with GLG 472. Cannot receive credit for both GLG 472 and GLG 672.

**GLG 680 Geochemistry.** 3(2-2) FO.

Prerequisites: GLG 332 and either MTH 135 or MTH 138; or permission of instructor. Topics include the dominant chemical reactions in natural waters, equilibrium conditions between mineral precipitation and dissolution, and characteristics of contaminated groundwater. Field trips required. Taught concurrently with GLG 480. Cannot receive credit for both GLG 480 and GLG 680.

**GLG 698 Research in the Geological Sciences.** 1-3, D. Prerequisite: permission of instructor. Original research supervised by the geology staff, involving special areas of the geological sciences. May be repeated to a total of 5 hours.

**GLG 699 Thesis.** 1-6, D.

Prerequisite: permission of instructor. Independent research and study connected with preparation of thesis.

## Geospatial Sciences Courses

**GEO 600 (RPL) Introduction to Geospatial Sciences.** 1(1-0) F.

Orientation to geospatial sciences and development of a research topic. Discussion of current issues revolving around the concepts of renewable and non-renewable resources in a cultural and physical framework.

**GEO 601 (RPL) Research Methods in Geospatial Sciences.** 3(2-2) S.

Prerequisite: MTH 340 or permission of instructor. Methods of collecting, organizing, and analyzing data pertinent to geospatial sciences. Emphasis will be on developing research strategies and quantitative analyses where appropriate.

**GEO 650 Advanced Climatology.** 3(2-2) D.

Advanced study of climate processes and climate change. Emphasis on the measurement and estimation of climatic variables, climatic models, and advanced statistical analysis of climatic data. Past, present and future climate variability and change, climatic impact and adaptation assessment.

**GEO 651 Topics in Advanced Physical Geography.** 3(3-0) D.

Critical review of recent advances and trends in applied and/or theoretical physical geography. Course will involve the study of seminal and recent journal articles and presentation of a research journal article and presentation of a research paper. Course content may vary among the subfields of physical geography including geomorphology, hydrology, water resources, soil geography climatology, and biogeography. Field trips may be required.

**GEO 655 (RPL) Applications of Digital Cartography, Analytical Photogrammetry, and Remote Sensing.** 1-3, D.

Prerequisite: GRY 551 or GRY 552 or GRY 566 or permission of instructor. Advanced application of aerial photography and digital imagery, analytical photogrammetry, remote sensing, digital cartography and other geospatial technologies in areas of interest such as land use/land cover mapping, landscape ecology, agriculture, forestry, resource planning, geology, and soils. Since credit and topics vary, the course may be repeated for a maximum of 7 hours with permission.

**GEO 670 (GRY) Advanced Field and Laboratory Methods.** 3(1-4) D.

Advanced training in laboratory and field methods in geography and geology. Topics will vary due to faculty expertise or student interest. Examples include watershed monitoring techniques, geochemical techniques, and field studies in remote areas. Field trips are required.

**GEO 680 (GRY) Seminar in Geospatial Sciences.** 2(2-0) S.

Prerequisite: permission of department head. Extensive paper on selected topic to be presented before staff seminars.

## Planning Courses

**PLN 100 Understanding Cities.** 3(3-0) F,S.

This course provides an introduction to understanding metropolitan issues from a variety of viewpoints. This course will explore questions such as: What is a city? What is the relationship between the natural and built environments? How do people perceive cities? What are their current issues and problems? How will cities respond to a changing world economy and the globalization of culture? This course will provide students with the concepts and critical thinking skills to understand the places in which they live, work, and visit.

**PLN 271 (CRP 371) General City and Regional Planning.** 3(3-0) F.

Introduction to the history of planning, urban form, urban design, and the planning process. Topics include the evolution of the city, the comprehensive plan, zoning, and examination of economic, social and environmental issues.

**PLN 325 (CRP 325) Regional Tourism Planning.** 3(2-2) D.

Prerequisite: GRY 310. Study of social, economic, and environmental impacts of tourism on a region. Planning and design at the regional level will be emphasized. Field trip required.

**PLN 367 Research Methods in Geography and Planning.** 3(3-0) S. (Identical with GRY 367)

Prerequisite: MTH 340 or one of AGR 330 or ECO 308 or PSY 200 or QBA 237 or REC 331 or SOC 302. With emphasis on applications of descriptive and inferential statistics, this course will introduce methods of sampling procedures, collecting, organizing, interpreting and analyzing data related to geography and planning. This course will also include computer applications. Planning students will be provided specific exercises to link their issue to planning policy. Cannot receive credit for both GRY 367 and PLN 367.

**PLN 372 (CRP) Community Development.** 3(3-0) S.

Study of the planning process of community development planning theory. Emphasis is placed on the interactive roles of citizens, community officials, and planners from the perspective of the ethics and values of the planning profession and the need of equity, social justice, and respect for diversity of views in competition over resources.

**PLN 400 (CRP) Communication Techniques in Planning.** 3(3-0) S.

Focuses on the oral, written, graphic and computer techniques used by planners in communicating with the public and elected officials. Emphasis is on the use of computers by planners and graphic presentations. The course will also include basic techniques used in writing planning documents, grants and summaries.

**PLN 405 Social Planning.** 3(3-0) S.

Prerequisite: 30 hours or permission of instructor. This course will address planning issues as they relate to social policy and the provision of social welfare. The first part of the course will introduce principles that guide the development of social planning, including fairness and justice; and a macro overview of programs that deal with the fundamental service of societal problems and poverty. The second part of this course will examine various social policy controversies such as low income housing, homelessness, community revitalization, and the service-dependent poor. A field project is required. May be taught concurrently with PLN 605. Cannot receive credit for both PLN 405 and PLN 605.

**PLN 470 Planning Law.** 3(3-0) S.

Prerequisite: PLN 271 or permission of instructor. Study of the legal foundations of land use controls. Topics include historic legal cases

establishing government intervention in private development zoning, subdivision, growth management, individual liberty, environmental regulation and the general welfare concept. May be taught concurrently with PLN 670. Cannot receive credit for both PLN 470 and PLN 670.

**PLN 471 Land Use Planning.** 3(3-0) F.

Prerequisite: PLN 271 or RIL 266 or permission of instructor. Focuses on conceptual and analytical techniques of land use planning, including land use analysis, planning studies and procedures, and synthesis of planning elements through comprehensive plan development. May be taught concurrently with PLN 671. Cannot receive credit for both PLN 471 and PLN 671.

**PLN 472 Community Planning Practicum.** 43(3-2) S.

Prerequisite: PLN 271 or RIL 266 or permission of instructor. Focuses on the process of plan preparation and is intended to provide experience in the application of planning principles and analytical techniques learned in other program courses to an actual planning problem. Students will work on an individual basis and as part of a team in preparing a final report. Field problems will vary. May be taught concurrently with PLN 672. Cannot receive credit for both PLN 472 and PLN 672.

**PLN 574 (CRP) Open Space and Recreation Planning.** 3(2-2) S.

Prerequisite: permission of instructor. Content focuses on planning and design for parks, both active and passive recreation, and other open space amenities. Open space and recreation planning will be integrated with land use, economic, social, and transportation considerations involved in community and regional planning. Field problem required.

**PLN 576 (CRP) Site Planning Studio.** 4(2-4) F.

Prerequisite: permission of instructor. Lecture-studio focusing on the principles and processes of urban design and site specific design requirements. Students will design site plans for specific uses such as subdivisions, shopping centers and parks for public presentation.

**PLN 596 (CRP) Research in Planning.** 1-3, F,S.

Prerequisite: permission of instructor. Enrichment through guided but independent, original research in planning and planning related subject areas. May be repeated to a total of 6 credit hours.

**PLN 597 (CRP) (595) Selected Topics in Planning.** 3(3-0) F,S.

Prerequisite: permission of instructor. Detailed treatment of various special topics in planning which may vary from semester to semester. Some typical topics: Economic Development Planning, Rural and Small Town Planning, Housing in America. Since credit and topics vary, the course may be repeated to a total of 6 hours. Variable Content Course.

**PLN 599 (CRP) (573) Internship in Urban and Regional Planning.** 1-3, F,S.

Prerequisite: 90 hours and PLN 271 and permission of instructor. Work in community or regional planning agency. Students are monitored by Planning faculty and supervisory personnel of the planning agency. May be repeated to a total of 6 hours.

*The following courses are open only to graduate students.*

**PLN 605 (505) Social Planning.** 3(3-0) S.

Prerequisite: 30 hours or permission of instructor. This course will address planning issues as they relate to social policy and the provision of social welfare. The first part of the course will introduce principles that guide the development of social planning, including fairness and justice; and a macro overview of programs that deal with the fundamental service of societal problems, and poverty. The second part of this course will examine various social policy controversies such as low-income housing, homelessness, community revitalization, and the service-dependent poor. A field project is required. May be taught concurrently with PLN 405. Cannot receive credit for both PLN 405 and PLN 605.

**PLN 670 (570) Planning Law.** 3(3-0) S.

Prerequisite: PLN 271 or permission of instructor. Study of the legal foundations of land use controls. Topics include historic legal cases establishing government intervention in private development zoning, subdivision, growth management, individual liberty, environmental

regulation and the general welfare concept. May be taught concurrently with PLN 470. Cannot receive credit for both PLN 470 and PLN 670.

**PLN 671 (571) Land Use Planning.** 3(3-0) F.

Prerequisite: PLN 271 or RIL 266 or permission of instructor. Focuses on conceptual and analytical techniques of land use planning, including land use analysis, planning studies and procedures, and synthesis of planning elements through comprehensive plan development. May be taught concurrently with PLN 471. Cannot receive credit for both PLN 471 and PLN 671.

**PLN 672 (572) Community Planning Practicum.** 4(3-2) S.

Prerequisite: PLN 271 or RIL 266 or permission of instructor. Focuses on the process of plan preparation and is intended to provide experience in the application of planning principles and analytical techniques learned in other program courses to an actual planning problem. Students will work on an individual basis and as part of a team in preparing a final report. Field problems will vary. May be taught concurrently with PLN 472. Cannot receive credit for both PLN 472 and PLN 672.

## Resource Planning Courses

*The following courses are open only to graduate students.*

**RPL 604 Community Resource Planning.** 1-3, D.

Prerequisite: permission of instructor. Explanation of community growth and change. Review of public and private agency programs. Topics may focus on small towns and rural areas as well as urban and metropolitan areas. Since credit and topics vary, the course may be repeated for a maximum of 7 hours with permission.

**RPL 650 Environmental Assessment.** 3(2-2) S.

The procedures and processes of environmental assessment. Soils, hydrology, climate, biogeography and geomorphology will be examined in an environmental assessment context. Environmental assessment is a prerequisite for satisfying the National Environmental Policy Act (NEPA) requirements.

## Department of Mathematics

10M Cheek Hall, Phone: 836-5112, FAX: 836-6966

Email: [Mathematics@missouristate.edu](mailto:Mathematics@missouristate.edu)

**Department Head:** Professor Yungchen Cheng, Ph.D.

**Distinguished Professor:** Paula A. Kemp, Ph.D.

**Professors:** Richard G. Belshoff, Ph.D.; Larry N. Campbell, D.A.; Kanghui Guo, Ph.D.; Shouchuan Hu, Ph.D.; Kurt Killion, Ed.D.; Shelby Kilmer, Ph.D.; John D. Kubicek, Ph.D.; George Mathew, Ph.D.; Lynda M. Plymate, Ph.D.; Les Reid, Ph.D.; Kishor Shah, Ph.D.; Clayton C. Sherman, Ph.D.; Vera B. Stanojevic, Ph.D.; Yingcai Su, Ph.D.; Xingping Sun, Ph.D.; Cameron Wickham, Ph.D.; Xiang Ming Yu, Ph.D.; Liang-Cheng Zhang, Ph.D.

**Associate Professor:** David I. Ashley, Ph.D.

**Assistant Professors:** Jorge L. Rebaza, Ph.D.; Mark Wayne Rogers, Ph.D.

**Lecturers:** Sylvia Carr, M.S.Ed.; Wallace F. Davis, M.Ed.; Gay F. Ellis, M.A.; Mark E. Gann, M.S.Ed.; W. Roger Hainline, Ed.S.; Pamela J. Henson, M.S.Ed.; Roseanne G. Killion, Ed.S.; Owen J. Mertens, M.A.; Donna N. Sherrill, M.S.Ed.; Gary L. Stafford, M.A.; Sally D. Vestal, M.A.; Beverly Weatherwax, M.S.

**Emeritus Professors:** Earl E Bilyeu, M.A.; James R. Downing, M.S.; Frank S. Gillespie, M.A.; Shirley Huffman, Ph.D.; David B. Lehmann, Ed.D.; Samuel A. Lynch, M.S.; E. Rebecca Matthews, M.S.T.; Neil Pamperien, M.S.T. (West Plains); Clyde A. Paul, Ed.D.; Woodrow Sun, Ph.D.; William Sutherlin, Ph.D.; Joe L. Wise, M.Ed.

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Mathematics, B.S.Ed., Secondary Education/Mathematics, M.S.Ed.

### Credit By Examination

Credit for MTH 261, 280, and 340 is available for the Advanced Placement (AP) Examination and credit for MTH 261 and 280 is available for the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### General Education Courses

All students must complete a college level algebra course numbered 130 or higher (excluding MTH 299). Many majors require a specific mathematics course. Please refer to the Specific General Education Requirements listed under the department of your major.

### Mathematics Placement

An appropriate placement score is required prior to taking any of the entry level mathematics courses as noted in the course prerequisite. Students can use their ACT Math Subscore or the results from the Department of Mathematics Placement Test to determine their appropriate math placement level. In the event that the placement determined by the ACT subscore and the departmental test are different, the student may choose either one after consulting with an advisor.

The one-hour placement test administered by the Mathematics Department will consist of fifty questions in three components: basic algebra; advanced algebra, and trigonometry. Students will have an option to attempt only the basic algebra portion during the first thirty minutes and turn in the test if they so desire. They are, however, strongly encouraged to attempt the whole test. There is no charge for the mathematics placement test, and there is no need to sign up in advance. Please contact the Mathematics Department for further information.

Students can view their ACT and placement test scores on the web My Information system within the Advisement Folder option.

### Placement using ACT Math Subscore (if 20 or above):

If ACT Math Subscore  
is greater than  
or equal to:

Then eligible to enroll in the following:

27	MTH 340, 287, 285, 261, 215, 181, 138, 135, 130
26	MTH 285, 181, 138, 135, 130
24	MTH 138, 135, 130, 103, 102, 101
22	MTH 135, 130, 103, 102, 101
20	MTH 103, 101

### Placement using Department Placement Test:

If Placement Test  
Score is: Then eligible to enroll in the following:

A	MTH 340, 287, 285, 261, 215, 181, 138, 135, 130, 103, 102, 101
B	MTH 285, 181, 138, 135, 130, 103, 102, 101
C	MTH 285, 181, 138, 135, 130
D	MTH 138, 135, 130, 103
E	MTH 103
F	MTH 135, 130, 103, 102, 101
G	MTH 138, 135, 130, 103, 102, 101
H	MTH 135, 130, 103, 102, 101
I	MTH 103, 101
J	Beginning Algebra (Non-Credit) *
K	MTH 101
L	MTH 103, 102, 101

NOTE: Placement scores of “F” and “H” have the same list of eligible courses. The “H” means the student completed only the first 25 questions of the exam. The “F” means the student attempted to complete the entire exam.

\* A non-credit course, Introduction to Algebra, is co-sponsored by the Mathematics Department and Center for Continuing and Professional Education. For information on course content, contact the Mathematics Department at (417) 836-5112.

### Mathematics Preparation

High school mathematics preparation strongly contributes to students’ success in their initial mathematics courses taken at Missouri State. Three units of mathematics at the high school algebra level and beyond are required for admission to Missouri State (see “Admission” section of this catalog). The Mathematics Department assumes these three units contain a minimum of the content and performance skills experienced in Algebra I, Geometry, and Algebra II.

## Majors

### Mathematics (Comprehensive)

#### Bachelor of Science

A. General Education (see General Education section of catalog)

B. Major Requirements (56 hours)

1. MTH 261(5), 280(5), 302(3), 303(3), 315(3), 497(1), 503(3), 532(3), 533(3), 540(3); MTH 541(3) or MTH 421(3) or CSC 421(3)

2. Select an additional 18 hours from mathematics courses numbered 400 or above. The comprehensive major is individualized. Selection of courses for the additional 18 hours shall be made in conference with the advisor and is subject to approval by the department head. Students are encouraged to elect courses from other disciplines to enhance the comprehensive major. Minimum for major is 56 hours.
  3. Courses required from related areas: CSC 125(3) or 131(4); PHY 203(5) (PHY 203 may partially fulfill the natural world general education requirement.)
- C. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Mathematics (Non-Comprehensive) Bachelor of Arts

- A. General Education (see General Education section of catalog)
- B. Major Requirements (34 hours)
1. MTH 261(5), 280(5), 302(3), 315(3), 497(1), 503(3), 532(3), 533(3), 540(3)
  2. Select an additional course from: MTH 303(3), MTH 575(3), MTH 421(3) or CSC 421(3), or from mathematics courses numbered 400 or above. Minimum for major is 34 hours.
  3. Course required from related area: CSC 121(3) or 125(3) or 131(4)
- C. Minor Required
- D. Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- E. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Mathematics (Non-Comprehensive) Bachelor of Science

- A. General Education (see General Education section of catalog)
- B. Major Requirements
1. MTH 261(5), 280(5), 302(3), 303(3), 315(3), 497(1), 503(3), 532(3), 533(3), 540(3)
  2. Select one of the following options:
    - a. **Actuarial Mathematics:**
      1. MTH 450(3), 541(3)
      2. Select an additional six hours from the following courses: MTH 421(3) or CSC 421(3); MTH 422(3) or 422(3); MTH 543(3), 546(3), 547(3)
    - b. **Applied Mathematics:**
      1. MTH 421(3) or CSC 421(3)
      2. Select an additional nine hours from the following courses: MTH 422(3) or CSC 422(3); MTH 507(3), 543(3), 570(3), 580(3)
    - c. **General Mathematics:**
      1. MTH 541(3) or MTH 421(3) or CSC 421(3)
      2. Select an additional nine hours with at least three hours from mathematics courses numbered 400 or above.
    - d. **Statistics:**
      1. MTH 541(3)
      2. Select an additional nine hours from the following courses: MTH 543(3), 545(3), 546(3), 547(3), 548(3)
  3. Courses required from related areas: CSC 125(3) or 131(4); PHY 203(5) (PHY 203 may partially fulfill the natural science general education requirement.)
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

### Mathematics

#### Bachelor of Science in Education (Certifiable grades 9-12)

- A. General Education (see General Education section of catalog)
- B. Major Requirements

1. MTH 261(5), 280(5), 302(3), 315(3), 345(3), 460(3), 497(1), 532(3), 533(3), 575(3)
  2. Select two courses from: MTH 503(3), 536(3), 540(3), 567(3)
  3. Courses required from related areas: CSC 121(3) or 125(3) or 131(4); PHY 123(4) or 203(5)
- C. Professional Education Requirements: MTH 409(3), 410(3), 493(5-6), 494(5-6) and see "Academic Programs and Requirements/Secondary Education" section of catalog
- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all course work attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under C; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

### Pre-Engineering

The Department of Mathematics and the Department of Physics, Astronomy, and Materials Science jointly offer a two-year pre-engineering program. Transfer to almost any engineering school from this program is possible, since most pre-engineering programs cover the same background material during the first two years. Students should check with the engineering school of their choice for details. Typical course schedules for several of the different engineering specialties can be obtained from the office of either department. Both departments share student advisement for all pre-engineering areas. Most students select a major in one of the two departments. Contact either department for details.

### Actuarial Science

Students may pursue a career as an actuary by choosing a major and minor in related areas and selecting appropriate electives. Students interested in actuarial science typically major in mathematics with the actuarial mathematics option and minor in insurance. Help in preparing for the early actuarial exams is available through the Mathematics Department. For more information, contact the Mathematics Department or the Finance and General Business Department.

### Minors

#### Mathematics

##### Bachelor of Arts Bachelor of Science

A total of 15 or more hours to include:

- A. MTH 261(5), 280(5), 215(3) or 315(3)
- B. Additional mathematics courses numbered 300 or above, other than MTH 315.

#### Mathematics

##### Bachelor of Science in Education (Non-Certifiable)

- A. MTH 261(5), 280(5), 315(3), 575(3)
- B. Select one course from: CSC 121(3), 125(3), 131(4)
- C. Select one course from: MTH 460(3), 567(3)
- D. Select additional mathematics courses numbered 300 or above to total at least 24 hours.

### Graduate Programs

The Master of Science degree offers a major in mathematics. The Master of Science in Education (secondary education major) and the Master of Natural and Applied Science degrees offer an area of emphasis in mathematics. See the Graduate Catalog for details.



## Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Accelerated Master of Science degree in Mathematics

Eligible undergraduate students majoring in mathematics may apply for preliminary acceptance into the Master of Science degree in Mathematics during the second semester of the junior year after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 6 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. See the Graduate Catalog or contact the Department of Mathematics for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Mathematics Courses

### MTH 101 Intermediate Algebra I. 2(1-2) F,S.

Prerequisite: appropriate placement score. This course is recommended for students who have not mastered algebra concepts needed for college algebra. Topics include linear equations and inequalities, absolute value equations and inequalities, exponents, polynomials, rational expressions, and radicals. A student who takes MTH 103 and MTH 101 receives credit toward graduation for only one of these courses. This course will not count toward a mathematics major or minor. A grade of "C" or better is required in this course to take MTH 102. This course may not be taken Pass/Not Pass.

### MTH 102 Intermediate Algebra II. 2(1-2) F,S.

Prerequisite: "C" grade or better in MTH 101, or appropriate placement score. This course is a continuation of MTH 101. Topics include quadratic equations and inequalities, lines, systems of equations, parabolas, circles, and functions. A student who takes MTH 103 and MTH 102 receives credit toward graduation for only one of these courses. This course will not count toward a mathematics major or minor. A grade of "C" or better is required in this course to take MTH 130, MTH 135, or MTH 138. This course may not be taken Pass/Not Pass.

### MTH 103 (3) Intermediate Algebra 3(3-0) or (2-2) F,S.

Prerequisite: appropriate placement score. This course is recommended for students who have not mastered algebra concepts needed for college algebra. Topics will include linear and quadratic equations, absolute value equations and inequalities, linear and nonlinear inequalities, properties of exponents, rectangular coordinate systems, lines, circles, parabolas, systems of equations, polynomials and rational

expressions, and functions. A student cannot receive credit toward graduation for both MTH 103 and either of MTH 101 and 102. This course will not count toward a mathematics major or minor. A grade of "C" or better is required in this course in order to take MTH 130, MTH 135, or MTH 138. This course may not be taken Pass/Not Pass. Assignment to the 3(3-0) version of the course is in summer only.

### MTH 130 (145) Contemporary Mathematics. 3(3-0) F,S.

Prerequisite: "C" grade or better in MTH 102 or MTH 103 or appropriate placement score. This is a problem solving course. Topics will include: patterns, set theory, algebra applications, number theory, geometry, probability, statistics, and mathematics of finance. This course will not count towards a mathematics major or minor. This course may not be taken Pass/Not Pass.

### MTH 135 College Algebra. 3(3-0) or (2-2) F,S.

Prerequisite: "C" grade or better in MTH 102 or MTH 103, or appropriate placement score. Contents include the study of linear and quadratic equations; inequalities and their applications; polynomial, rational, exponential and logarithmic functions; and systems of equations. A student who takes MTH 135 and MTH 138 receives credit toward graduation for MTH 138 only. This course will not count toward a mathematics major or minor. Assignment to the 3(3-0) version of the course is in the summer session only. A grade of "C" or better is required in this course to take MTH 181, MTH 285, or MTH 287. This course may not be taken Pass/Not Pass.

### MTH 138 Pre-Calculus Mathematics. 5(5-0) F,S.

Prerequisite: "C" grade or better in MTH 102 or MTH 103 or appropriate placement score. Selected topics in algebra and trigonometry to prepare the student for calculus. A student who takes MTH 135 and 138 receives credit toward graduation only for one of the courses. Will not count toward mathematics major or minor. A grade of "C" or better is required in this course in order to take MTH 261, 287, CSC 125 or 131. This course may not be taken Pass/Not Pass.

### MTH 181 Trigonometry. 3(3-0) F,S.

Prerequisite: "C" grade or better in MTH 135, or appropriate placement score. Triangle trigonometry and its applications; trigonometric and inverse trigonometric functions; trigonometric identities and equations; Rational, exponential and logarithmic functions. A student may not receive credit for more than one of MTH 138 and 181. Will not count toward mathematics major or minor. A grade of "C" or better is required in this course in order to take MTH 287. This course may not be taken Pass/Not Pass.

### MTH 215 Discrete Mathematics. 3(3-0) F,S.

Prerequisite: MTH 138. Topics include: logic, mathematical reasoning, basic counting, discrete probability, matrices, recursion, sets and relations, graphs and trees.

### MTH 261 Analytic Geometry and Calculus I. 5(5-0) F,S.

Prerequisite: "C" grade or better in MTH 138 or appropriate placement score or permission of department head. Analytic geometry of the plane, limits, continuity, differentiation with applications, introductory integration with applications. A grade of "C" or better is required in this course in order to take MTH 280, 288. This course may not be taken Pass/Not Pass.

### MTH 280 Analytic Geometry and Calculus II. 5(5-0) F,S.

Prerequisite: "C" or better in MTH 261, or permission of department head. Applications of integration, integration techniques, indeterminate forms, improper integrals, sequences, series, conic sections, parametrization, polar coordinates. This course may not be taken Pass/Not Pass.

### MTH 285 Calculus for Business and the Social Sciences. 3(3-0) F,S.

Prerequisite: "C" or better in MTH 135, or appropriate placement score. Short review of algebra; absolute value and inequalities followed by elements of geometry, limits, the derivative, anti-derivative, and their applications. Student taking MTH 285 and 261 receives credit only for 261.

**MTH 287 Computational Calculus with Analytic Geometry I.** 3(3-0) F.

Prerequisite: "C" or better in MTH 138, or "C" or better in both MTH 135 and MTH 181, or appropriate placement score. Introduction to the concepts and methods of analytic geometry and differential and integral calculus with emphasis on applications in the natural sciences and technology. Students taking MTH 287 and MTH 261 receive credit only for MTH 261. A student can receive credit for only one of the courses MTH 285 or MTH 287. A grade of "C" or better is required in this course in order to take MTH 288. This course may not be taken Pass/Not Pass.

**MTH 288 Computational Calculus II.** 3(3-0) S.

Prerequisite: "C" grade or better in MTH 261 or MTH 287. Continuation of MTH 287. Students taking both MTH 288 and MTH 280 receive credit only for MTH 280. This course may not be taken Pass/Not Pass.

**MTH 299 Introductory Topics in Mathematics.** 1-3, D.

Variable content course with topics that can change from semester to semester. Topics will be identified by title in the schedule of classes. The course may be repeated if a different topic is offered. Will not count toward a mathematics major or minor, nor will it satisfy the general education basic skills requirement in mathematics.

**MTH 300 Service Learning in Mathematics.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a Mathematics course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in mathematics to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning credit may count toward graduation.

**MTH 302 Multivariate Calculus.** 3(3-0) F,S.

Prerequisite: MTH 280. Vector algebra and calculus, solid analytic geometry, partial differentiation, multiple integration, vector fields.

**MTH 303 Differential Equations.** 3(3-0) F,S.

Prerequisite: MTH 280. Ordinary differential equations; their solutions and applications. Introduction to operators and the Laplace transformation.

**MTH 315 Algebraic Structures.** 3(3-0) F,S.

Prerequisite: MTH 261. Sets, logic, quantifiers, functions, relations, matrices, elementary number theory, induction, recursion, combinatorics, with emphasis on reading and writing proofs and the development of mathematical maturity.

**MTH 320 Foundations of Mathematics for Teachers.** 3(2-2) F,S.

Prerequisite: completion of math general education requirement with grade of "C" or better; MTH 130 recommended. This course centers around the structure and properties of the real number system and its subsets. Numeration systems, patterns of numbers, models and algorithms for operations, number theory, probability, and statistics will be studied. Problem solving and communication are continuing themes of this course. Manipulatives (including Base-10 Blocks, Cuisenaire Rods, Number Cubes, and Colored Counters), calculators, and computer software (including a statistical package, spreadsheet and word processor) are used extensively as tools to develop mathematical concepts. Cannot be used as a mathematics elective for the mathematics major or minor.

**MTH 340 Statistical Methods.** 3(3-0) F,S.

Prerequisite: MTH 135 or appropriate placement score. Statistics, elementary probability, estimation and tests of simple hypotheses involving both large and small sample methods, linear correlation. Will not count toward mathematics major or minor. A student may not receive credit toward a degree for more than one of the following courses: AGR 330, ECO 308, MTH 340, PSY 200, QBA 237, REC 331, SOC 302.

**MTH 343 Foundations of Probability and Statistics for Teachers.** 3(2-2) F,S.

Prerequisite: "C" or better in MTH 320. This course includes the collection, display, analysis, and misuse of data, measures of central tendency and variation; counting techniques including permutations and combinations; elementary probability, and an informal introduction to correlation and regression. Problem solving and communication skills are continuing themes. This is an activity-based course with extensive use of manipulatives, models and technology. It cannot be used as a mathematics elective for a mathematics major or minor.

**MTH 345 Statistics for Scientists and Engineers.** 3(3-0) F,S.

Prerequisite: MTH 280 or MTH 288. Topics include events, probability, random variables, discrete and continuous density functions, expectations, sampling distributions, central limit theorem, estimation, confidence intervals, tests or hypotheses. Computer statistical packages will be used for simulation study and data analysis.

**MTH 360 Foundations of Geometry for Teachers.** 3(2-2) F,S.

Prerequisite: "C" or better in MTH 320. This course includes the study of synthetic, analytic, vector and transformational geometries through properties of geometric figures, measurement, construction, conjecture and proof, and tessellations. Problem solving and communication are continuing themes of this course. Manipulatives (including MIRA, Geoboard, Tangrams, Attribute Blocks and compass), calculators, and computer software (including Logo, Geometer's Sketchpad and a word processor) are used extensively as tools to develop geometric concepts. Cannot be used as a mathematics elective for the mathematics major or minor.

**MTH 377 Mathematical Processes.** 3(2-2) S.

Prerequisite: MTH 135 and MTH 343. This course examines both finite and infinite mathematical processes used when solving problems involving discrete or continuous data. As an activity-base and laboratory-centered course, these processes are to be explored in the context of real-world applications. Communication of mathematical concepts and solutions to problems using technology, as well as paper and pencil procedures, is a continuing theme. This course is for the middle school education major who chooses mathematics as an area of subject matter concentration and elementary education majors with an emphasis area in mathematics. The course connects experiences from the concepts of numbers, algebra, geometry, and data analysis to those of the calculus. This course cannot be used as a mathematics elective for the mathematics major or minor.

**MTH 409 (SEC) Teaching and Learning of Mathematics I.** 3(2-2) S.

Prerequisite: SEC 302 and 15 hours of college mathematics. Develops foundation for reflective decision making when teaching algebra to emphasize problem solving, communication, reasoning and proof, connections, and representations. The incorporation of appropriate classroom technology will be stressed. Credited only on the B.S. in Education (Middle/Secondary). A grade of "C" or better is required in this course in order to take MTH 493. This course may not be taken Pass/Not Pass. This course will not count toward the major GPA.

**MTH 410 Teaching and Learning of Mathematics II, with Practicum.** 3(2-2) F.

Prerequisite: MTH 409. Focus on developing the reflective decision-maker's appropriate use of current technologies, classroom management techniques and assessment processes in teaching geometry. Some attention devoted to advanced algebra, trigonometry, discrete mathematics and calculus topics. All students will complete a field experience in a mathematics classroom. Credited only on the B.S. in Education (Secondary). A grade of "C" or better is required in this course in order to take MTH 493. This course may not be taken Pass/Not Pass. This course will not count toward the major GPA.

**MTH 421 Numerical Analysis I.** 3(3-0) D. (Identical with CSC 421)

Prerequisite: MTH 280. Recommended: CSC 131 or CSC 125. Finite differences, numerical integration, matrix computations, numerical solution of nonlinear systems and differential equations, least squares techniques, curve fitting. Problem solution will incorporate a symbolic

mathematical program. Cannot receive credit for both CSC 421 and MTH 421.

**MTH 422 Numerical Analysis II.** 3(3-0) D. (Identical with CSC 422)  
Prerequisite: MTH 421 and MTH 303. Continuation of MTH 421. Cannot receive credit for both CSC 422 and MTH 422.

**MTH 450 Theory of Interest.** 3(3-0) S.

Prerequisite: MTH 302 and MTH 315. A thorough treatment of the mathematical theory of interest with some discussion of economic aspects such as inflation, risk and uncertainty, and yield curves. Topics include: Annuities, yield rates, amortization, bonds, and sinking funds.

**MTH 460 College Geometry.** 3(3-0) F,S.

Prerequisite: MTH 315. This course examines concepts not usually included in a high school plane geometry course: axiomatic structure, finite geometries; Euclidean geometry axioms, historical development and relationships between various geometries, transformations in two and three dimensions, groups of transformations, convexity, linear programming, geometry of polygons and circles, the none-point circle, constructions, and an introduction to non-Euclidean geometry. These topics will be developed within a problem solving context and will emphasize construction and communication of mathematical ideas including argument and proof. A dynamic geometry software package, such as Geometer's Sketchpad, will be used as a tool to develop geometric concepts.

**MTH 479 Mathematical Tools and Structures.** 3(2-2) F.

Prerequisite: MTH 343 or MTH 360. Recommended: 15 hours of elementary or middle school mathematics. This course is designed to coordinate, connect and extend the mathematical experiences of the student who is preparing to teach mathematics in the middle school. Specific course content will include all of the following: an in-depth overview of problem solving and the nature of proof in mathematics and the mathematics classroom; history of the development of mathematics; a variety of mathematical topics such as algebraic structures, discrete mathematics, fractals and chaos, etc.; examination and exploration of mathematical topics that are appropriate and necessary for middle school students to ensure their efficient transition into secondary mathematics. A constant awareness of the use and impact of technology upon the mathematician and the mathematics classroom is explored and integrated throughout the course. The course experience is culminated in the final project, which will be an original, independent investigating of some relevant mathematical topic of interest to the student. This course cannot be used as a mathematics elective for the mathematics major or minor.

**MTH 493 Supervised Teaching (Secondary Mathematics).** 5-6, F,S.

Prerequisite: completion of all methods courses in mathematics; a grade of "C" or better in all professional education courses; approval for student teaching. Student observes, then teaches mathematics classes under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credit is given only on the B.S. in Education (Secondary Mathematics) program. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. This course will not count toward the major GPA. Cannot receive credit for both SEC 493 and MTH 493.

**MTH 494 Supervised Teaching (Secondary Mathematics).** 5-6, F,S.

Prerequisite: MTH 493 or Sec 493 or ELE 495 or SPE 495. Student observes, then teaches mathematics classes under the direction of the cooperating teacher and the college supervisor. Student participates in school related activities appropriate to the assignment and attends all required meetings. Credit is given only on the B.S. in Education (Secondary Mathematics) program. Students will be required to complete the work on the Professional Preparation Portfolio which will be included as a portion of the course grade. This course will not count toward the major GPA. Cannot receive credit for both SEC 493 and MTH 493.

**MTH 496 Clinical Experiences in Teaching II.** 4 F,S.

Prerequisite: EDC 199 and admitted to Teacher Education Program and grades of "C" or better in all professional education courses and passing the appropriate PRAXIS exam and completion of portfolio checkpoints

1 and 2. This course is designed to meet HB 1711 for student's experience as a Teacher's Aide or Assistant Rule (Rule 5 CSR 80-805.040), to that of conventional student teachers within the same program. It is also designed to support completion of additional clinical requirements within that program including: seminars and workshops, required meetings, school related activities appropriate to the assignment, demonstrated mastery of the MOSTEP quality indicators and completion and overall assessment of a Professional Preparation Portfolio. This course is credited only on B.S. in Education or appropriate master's-level certification programs. Can only receive credit for one of the following: AGE 499, AGT 499, ART 469, BSE 499, CFS 498, COM 493, ECE 499, ELE 499, ENG 434, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493.

**MTH 497 (490) Topics.** 1(1-0) F,S.

Prerequisite: 90 credit hours. Recommended: completion of or concurrent enrollment in all mathematics courses required for the mathematics major. A written paper on a mathematical topic will be required. The student will be exposed to elementary research topics and to professional opportunities including graduate programs, employment by business, industry and government, and teaching options. Each student will be required to take the mathematics major assessment exam.

**MTH 503 Advanced Calculus I.** 3(3-0) F, S.

Prerequisite: MTH 302 and MTH 315. Concepts of limit, continuity, differentiation, Riemann integration, sequences and series, other related topics.

**MTH 504 Advanced Calculus II.** 3(3-0) D.

Prerequisite: MTH 503. This is a continuation of MTH 503, including sequences and series of functions, uniform convergence, multivariate calculus, and other selected topics.

**MTH 506 Theory of Functions of a Complex Variable.** 3(3-0) D.

Prerequisite: MTH 302 and MTH 315. Theory of elementary functions—polynomial, trigonometric, exponential, hyperbolic, logarithmic—of a complex variable; their derivatives, integrals; power series; other selected topics.

**MTH 507 Introduction to Partial Differential Equations.** 3(3-0) D.

Prerequisite: MTH 303 and MTH 315. Introduction to linear first and second order partial differential equations, including some formal methods of finding general solutions; the Cauchy problem for such equations, existence theorems, formal methods of finding the solution, and the role of characteristics; the classical boundary and initial value problems for the wave equation, heat equation and the boundary value problems for Laplace's equation.

**MTH 532 Introduction to Abstract Algebra.** 3(3-0) F.

Prerequisite: MTH 302 and MTH 315. Theory of groups, rings, integral domains, fields, polynomials.

**MTH 533 Linear Algebra I.** 3(3-0) F,S.

Prerequisite: MTH 302 and MTH 315. Vector spaces, linear independence, inner product spaces, linear transformations, Eigenvectors, diagonalization.

**MTH 534 Linear Algebra II.** 3(3-0) D.

Prerequisite: MTH 533. Topics include eigenvalue problems; Jordan normal form, linear functionals, bilinear forms, quadratic forms, orthogonal and unitary transformations, Markov processes, and other topics selected by the instructor.

**MTH 536 Theory of Numbers.** 3(3-0) D.

Prerequisite: MTH 302 and MTH 315. Factorization, Euler totient function, congruences, primitive roots, quadratic residues and reciprocity law.

**MTH 537 Applied Abstract Algebra.** 3(3-0) D.

Prerequisite: MTH 532 or MTH 533. Topics typically include finite fields, block designs, error-correcting codes (nonlinear, linear, cyclic, BCH, and Reed-Solomon codes), cryptography, and computer implementation of these applications.

**MTH 540 (440) Statistical Theory I.** 3(3-0) F.

Prerequisite: MTH 302 and MTH 315. Random variables, discrete and continuous probability functions, expectation, moment-generating functions, transformation of variables.

**MTH 541 Statistical Theory II.** 3(3-0) S.

Prerequisite: MTH 540. Estimation, complete and sufficient statistics, maximum likelihood estimation, hypothesis testing, nonparametric statistics.

**MTH 543 Stochastic Modeling.** 3(3-0) S.

Prerequisite: MTH 540. This course will study applications of probability and statistics from a modeling point of view. Topics include generating functions, branching processes, discrete time Markov chains, classification of states, estimation of transition probabilities, continuous time Markov Chains, Poisson processes, birth and death processes, renewal theory, queuing systems, Brownian motion, and stationary processes. Computer statistical packages will be used.

**MTH 545 Applied Statistics.** 3(3-0) F.

Prerequisite: 60 credit hours and either MTH 135 or MTH 138. A course on statistical concepts, methods and data analysis with emphasis on assumptions and effects on violating those assumptions. Computer statistical packages will be used. Topics include statistical models, random sampling, normal distribution, estimation, confidence intervals, tests and inferences in single and two populations, and n-way analysis of variance.

**MTH 546 Analysis of Variance and Design of Experiments.** 3(3-0)D.

Prerequisite: MTH 345 or MTH 541 or MTH 545 or permission of the department head. Topics include analysis of variance, estimation of variance components, randomized incomplete blocks, Latin squares, factorial nested, split-plot designs, fixed, random and mixed models.

**MTH 547 Applied Regression Analysis.** 3(3-0) D.

Prerequisite: MTH 345 or MTH 541 or MTH 545 or permission of the department head. Topics include fitting a straight line, matrix models, residuals, selecting best equation, multiple regression, and nonlinear estimation.

**MTH 548 Applied Time Series Analysis.** 3(3-0) F.

Prerequisite: MTH 345 or MTH 541 or MTH 545 or permission of the department head. This course will study the analysis of data observed at different points of time. Topics include stationary and non-stationary time series models, linear time series models, autoregressive models, autocorrelations, partial autocorrelations, moving average models, ARMA models, ARIMA models, forecasting, prediction limits, model specification, least square estimation, and seasonal time series models. Computer statistical packages will be used.

**MTH 567 Introduction to Non-Euclidean Geometry.** 3(3-0) S.

Prerequisite: MTH 302 and MTH 315. Development of non-Euclidean geometries; intensive study of hyperbolic geometry.

**MTH 570 Combinatorial Analysis.** 3(3-0) D.

Prerequisite: MTH 280. An introduction to combinatorial analysis including enumeration methods, combinatorial identities with applications to the calculus of finite differences and difference equations.

**MTH 575 (370) History of Mathematics.** 3(3-0) F,S.

Prerequisite: MTH 302 and MTH 315. Development of mathematics through the calculus; solution of problems of historical interest, problems which use historically significant techniques; problems whose solutions illuminate significant mathematical characteristics of elementary mathematics.

**MTH 580 Applied Mathematics.** 3(3-0) D.

Prerequisite: MTH 303 and MTH 533 or permission of the department head. An introduction to several areas of applied mathematics including control theory, optimization, modeling of population dynamics, modeling of mathematical economics, minimax and game theory, and calculus of variations.

**MTH 582 Introductory Topology.** 3(3-0) D.

Prerequisite: MTH 302 and MTH 315. Properties of abstract metric and topological spaces; discussion of concepts of compactness and connectedness.

**MTH 596 (554) Readings.** 1-3, F,S.

Prerequisite: permission of the department head. Periodic conferences with an advisor are required. May be repeated to a total of 6 hours.

**The following courses are open only to graduate students.****MTH 601 Real Analysis.** 3(3-0) D.

Prerequisite: MTH 503. Topics include countable and uncountable sets, convergence, Lebesgue measure on the real line, the development of the Lebesgue integral, the fundamental theorem of calculus and  $L^p$  spaces.

**MTH 602 Real and Abstract Analysis.** 3(3-0) D.

Prerequisite: MTH 601. A study of the theory of abstract measures and integration, and an introduction to functional analysis.

**MTH 606 Complex Analysis.** 3(3-0) D.

Prerequisite: MTH 503. Analytic functions, power series, Cauchy's theorem and its applications, residues. Selected topics from conformal mapping, analytic continuation, harmonic functions, Fourier series, and Dirichlet problems.

**MTH 610 Contemporary Mathematics for Secondary Teachers.** 3(3-0) D.

Prerequisite: either MTH 532 or MTH 533 and; either MTH 460 or MTH 567. Reports, research, and recent trends in secondary mathematics; recently developed programs in algebra and geometry.

**MTH 621 Theory of Ordinary Differential Equations I.** 3(3-0) D.

Prerequisite: MTH 303 and MTH 503. Existence and uniqueness theorems for first order differential equations; system of linear and nonlinear differential equations; continuous dependence of solutions on initial conditions and parameters; behavior of solutions of equations with constant coefficients, study of Lyapunov's theorems on stability; introduction to boundary value problems.

**MTH 622 Theory of Ordinary Differential Equations II.** 3(3-0) D.

Prerequisite: MTH 621. Theory and application of boundary value problems; periodic solutions; linear systems with periodic coefficients (Floquet theory); two dimensional (autonomous) systems limit cycles. Differential equations under Caratheodory conditions; theory of differential and integral inequalities and other selected topics, if time permits.

**MTH 630 Abstract Algebra I.** 3(3-0) D.

Prerequisite: MTH 532 and MTH 533. Topics from group theory will include Cayley's Theorem, finite abelian groups, Cauchy's Theorem, the Sylow Theorems, and free groups.

**MTH 632 Abstract Algebra II.** 3(3-0) D.

Prerequisite: MTH 630. Topics from ring theory will include the Chinese Remainder Theorem, Euclidean domains, rings of fractions, PID's and UFD's, and polynomial rings. Topics from field theory will include splitting fields, Galois Theory, separability, normality, and finite fields.

**MTH 641 Statistical Inference I.** 3(3-0) D.

Prerequisite: MTH 541. Formulation of statistical models, sufficiency and exponential families, methods of estimation, optimality theory. Uniformly minimum variance unbiased estimators, Fisher information, Cramer/Rao inequality, large sample theory, Bayes procedures and minimax procedures.

**MTH 642 Statistical Inference II.** 3(3-0) D.

Prerequisite: MTH 641. Confidence intervals and regions, hypothesis testing, the Neyman-Pearson framework, uniformly most powerful tests, likelihood ratio criteria, power functions, similar regions, invariant tests, distribution free tests.

**MTH 681 Topology.** 3(3-0).

Prerequisite: MTH 503 or MTH 582. Point set topology in abstract spaces.

**MTH 691 Seminar I.** 2(2-0).**MTH 692 Seminar II.** 2(2-0).**MTH 697 (655) Topics.** 3(3-0) D.

Prerequisite: permission of department head. Material covered determined by the interests and backgrounds of the students. May be repeated for a maximum of 6 hours.

**MTH 698 Research.** 1-6, F,S.

Supervised research in special areas of mathematics. May be repeated. May not be counted toward the Master of Science in Education degree.

**MTH 699 (694) Projects.** 1-6.

Independent research for thesis preparation.

## Department of Physics, Astronomy and Materials Science

101 Kemper Hall, Phone: 836-5131, FAX: 836-6226

Email: [Physics@missouristate.edu](mailto:Physics@missouristate.edu)

**Department Head:** Professor Pawan K. Kahol, Ph.D.

**Professors:** Lawrence E. Banks, Jr., Ph.D.; James G. Broerman, Ph.D.; Ryan E. Giedd, Ph.D.; Shyang Huang, Ph.D.; Robert A. Mayanovic, Ph.D.; Robert S. Patterson, Ph.D.; William E. Thomas, Ph.D.; Robert J. Whitaker, Ph.D.; George W. Wolf, Ph.D.

**Associate Professors:** Kartik Ghosh, Ph.D.; Kandiah Manivannan, Ph.D.; Emmett R. Redd, Ph.D.

**Assistant Professors:** Sanju Gupta, Ph.D.; Michael D. Reed, Ph.D.; Cheryl P. Schaefer, Ph.D.

**Instructor:** Rebecca Baker, M.S.

**Lecturer:** John H. Carter, Ph.D.

**Emeritus Professors:** Betty L. Bitner, Ed.D.; David L. Carleton, M.S.; Bruno F. Schmidt, Ph.D.; Robert E. Thurman, Ph.D.;

**Accreditations and Approvals:** Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Physics Education, B.S.Ed., Secondary Education/Physics, M.S.Ed.

### Baker Observatory

The William G. and Retha Stone Baker Observatory is located approximately ten miles northwest of Marshfield in Webster County (off Missouri Highway 38 on Hillcrest Road.)

The observatory is used on clear evenings for laboratory work by students in beginning and intermediate astronomy courses, and by advanced undergraduate students and faculty conducting astronomical research. The observatory houses several small telescopes and two large instruments—a 0.36 meter Celestron Schmidt Cassegrain telescope and a professional model 0.4 meter Cassegrain reflecting telescope on loan from Cerro Tololo Inter-American Observatory in Chile.

The public may visit the observatory during open houses that are conducted by the Department twice each year, in April or May, and in September or October.

### Credit By Examination

Credit for PHY 123 and PHY 203 is available for the Advanced Placement (AP) Examination and credit for PHY 123 and PHY 124 is available for the International Baccalaureate (IB) Subject Examination. See the “Academic Regulations/Credit By Exam” section of this catalog for information.

### Dated Courses

Courses taken more than 10 years before graduation are subject to review and possible rejection by the department faculty.

### General Education Courses

The following courses may be used toward satisfying the Natural World Area of Inquiry: AST 114, 115; PHY 100, 101, 123, 203.

### Majors

The mathematical preparation (or lack thereof) in high school strongly governs the point at which a student should begin a physics major. Since there are at least 6 different levels of beginning students in this discipline, it is imperative that these students consult a member of the physics staff as soon as possible, preferably before their first semester in attendance.

### Engineering Physics (Comprehensive)

#### Bachelor of Science

- A. General Education (See General Education section of catalog)  
Specific General Education Requirements: CSC 111(3); PHY 203(5); MTH 261(5); ENG 321(3)
- B. Major Requirements (67-68 hours)
  1. CSC 121(3) or CSC 125(3); MTH 280(5), 302(3), 303(3); PHY 204(5), 252(3), 343(3), 352(3), 375(3), 391(3), 392(3)
  2. Select one of the following options (30 - 31 hours)
    - a. **Computer Engineering:** PHY 220(4), 324(4), 353(3), 354(3), 385(2), 386(1), 475(3) or MAT 580(3), PHY 485(3), 486(1), 524(4), 558(3)

- b. **Materials Science:** PHY 353(3), 385(2), 386(1), 475(3), 476(3), 485(3), 486(1), 558(3); MAT 540(3), 550(3), 580(3). In addition at least 5 hours chosen from: PHY 463(3), 543(3), 553(3), 575(3), BMS 514(2).

- c. **Personalized:** IDM 110(3); PHY 333(3), 353(3), 386(1), 486(1); plus 19 hours of optional computer science, mathematics, and science courses in a program covering some engineering specialty. This emphasis is to be developed with the student's advisor and is subject to approval of the head of the Department of Physics, Astronomy, and Materials Science.

- C. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Physics (Non-Comprehensive)

#### Bachelor of Science

- A. General Education (see General Education section of catalog)  
Specific General Education Requirements: PHY 203(5), MTH 261(5), ENG 321(3)
- B. Major Requirements
  1. PHY 204(5), 333(3), 343(3), 352(3), 353(3), 375(3), 385(2), 386(1), 391(3), 476(3), 485(1), 486(1)
  2. At least one course selected from: AST 115(4), 311(3), 315(3); PHY 324(4), 392(3), 463(3), 475(3)
  3. At least one course selected from: PHY 533(3), 543(3), 553(3), 575(3)
  4. Related mathematics requirements: MTH 280(5), 302(3), 303(3)
- C. Minor Required
- D. General Baccalaureate Degree Requirements (see “Academic Programs and Requirements” section of catalog)

### Physics Education

#### Bachelor of Science in Education

##### (Certifiable grades 9-12)

- A. General Education (see General Education section of catalog) The following required courses can be used to meet both General Education and Major Requirements: BIO 121(4); MTH 261(5); CSC 111(3); GRY 108(3); AST 115(4) or CHM 160(4) or PHY 100(4)
- B. Major Requirements
  1. Core (22 hours): PHY 100(4), 203(5), 204(5), 375(3), 385(2), 509(3)
  2. Major Electives (8 hours): Select additional hours from any PHY or AST course numbered at or above 200, except for PHY 501, with no more than 3 hours at the 200 level
  3. Related Requirements (34 hours): MTH 261(5), 280(5), 302(3); CSC 111(3); AST 115(4); BIO121(4); CHM 160(4); GRY 108(3); SCI 505(3)
- C. Professional Education Courses (33 hours): SCI 414(3), SCI 493(6), SCI 494(6) and see “Academic Programs and Requirements/Secondary Education” section of catalog

- D. General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)
- E. In order to meet Missouri state teacher certification requirements, candidates for the Bachelor of Science in Education degree are required to meet the following grade point average requirements: at least a 2.50 GPA on all coursework attempted at all colleges attended; at least a 2.50 GPA in the certificate subject area (major field of study) which includes all courses listed under B; at least a 2.50 GPA in any additional certificate subject area; at least a 2.50 GPA in the professional education courses; and no grade lower than a "C" in all professional education courses. All GPA requirements include both Missouri State and transfer grades.

## Engineering

### Pre-Engineering

The Department of Physics, Astronomy, and Materials Science and the Department of Mathematics jointly offer a two-year pre-engineering program. Transfer to almost any engineering school from this program is possible, since most pre-engineering programs cover the same background material during the first two years. Students should check with the engineering school of their choice for details. Typical course schedules for several of the different engineering specialties can be obtained from the office of either department. Both departments share student advisement for all pre-engineering areas. Most students select a major in one of the two departments. Contact either department for details.

## Minors

### Astronomy

#### Bachelor of Arts

#### Bachelor of Science

- A. AST 114(4) or 115(4); AST 311(3)
- B. Complete two of the following: AST 313(3), 315(3), 317(3)
- C. Complete additional physics or astronomy courses to bring total to 18 hours with no more than 10 hours of courses numbered below 300. Recommended electives: AST 110(1) if AST114 was taken; PHY 123(4), 124(4), 386(1), 486(1)

### Environmental Physics Technology

#### Bachelor of Science

PHY 123(4), 124(4), 352(3), 373(3); CHM 105(5) or 160(4); GRY 135(4)

### Physics

#### Bachelor of Science

PHY 203(5), 204(5); plus electives from any other physics courses to bring total to 20 hours with no more than 14 hours of courses numbered below 300.

## Graduate Programs

The Master of Science degree offers a major in Materials Science. The Master of Science in Education (secondary education major) and the Master of Natural and Applied Science degrees offer an area of emphasis in physics. See the Graduate Catalog for details.

### Accelerated Master of Natural and Applied Science degree

Eligible undergraduate students majoring in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 12 credit hours of approved 500-level or 600-level courses may be designated as "mixed credit" and counted toward both the undergraduate and

graduate degree programs. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the masters degree in less time than would otherwise be possible. See the Graduate Catalog or contact the MNAS program director for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Accelerated Master of Science degree in Materials Science

Eligible undergraduate students majoring in Engineering Physics may apply for preliminary acceptance into the Master of Science degree in Materials Science after admission requirements for the accelerated masters program have been satisfied. If approved, a maximum of 9 credit hours from MAT 540(3), MAT 550(3), and MAT 580(3) may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. This offers an opportunity to complete the course requirements for Bachelor of Science degree in Engineering Physics and the Master of Science degree in Materials Science within five years. See the Graduate Catalog or contact the Department of Physics, Astronomy, and Materials Science for further information and guidelines.

For courses to be designated as Mixed Credit, the graduate advisor, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Registration Center in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Astronomy Courses

### AST 110 Astronomical Observations. 1(0-2) D.

Prerequisite: eligibility for MTH 101. An introductory laboratory course stressing the techniques of astronomical observation and analysis of observed data. Students will have an opportunity to use telescopes and instruments at the Baker Observatory.

### AST 111 Astronomical Frontiers. 2(2-0) D.

A general interest course which will explore in detail, but nonmathematically, current subject areas of astronomy and astrophysics, such as quasars, black holes, and the origin of the universe, which attract the greatest attention in the media and among the general public.

### AST 113 Modern Astronomy. 3(3-0) F,S.

An introduction to our present knowledge of the nature of the universe, the galaxies, the stars, and the planets. A description of the natural laws and physical observations which are leading us to an understanding of our place in the cosmos.

### AST 114 Survey of Astronomy. 4(4-0) F,S.

Prerequisite: eligibility for MTH 101. Historical and descriptive aspects of astronomy; topics of current interest related to space science. Cannot receive credit for both AST 114 and 115.

### AST 115 Basic Astronomy. 4(3-2) F,S.

Prerequisite: eligibility for MTH 101. Historical and descriptive aspects of astronomy; topics of current interest related to space science. Laboratory consists of observations with telescopes and of experiments pertinent to the field. Cannot receive credit for both AST 114 and 115.

### AST 311 Astronomical Techniques. 3(2-2) F.

Prerequisite: MTH 135 and; either AST 114 or AST 115. Intermediate level course; actual techniques of astronomical observation, methods of analysis of these observations, possible interpretations of acquired data.

In laboratory, each student obtains his observations for study in spectroscopy, photometry, photography, and CCD imaging.

**AST 313 The New Solar Systems.** 3(3-0) FO.

Prerequisite: AST 114 or 115, MTH 138 or equivalent, or permission. A modern inquiry of the planets, comets, asteroids, and other members of our solar system and the planets of other stellar systems, based on recent interplanetary explorations and Earth-based observations. Cannot receive credit for both AST 313 and AST 513.

**AST 315 The Lives and Deaths of Stars.** 3(3-0) SO.

Prerequisite: AST 114 or 115, MTH 138 or equivalent, or permission. The structure of stars, processes at work in stellar atmospheres, the formation process, and the evolution of stars into white dwarfs, neutron stars, or black holes. Cannot receive credit for both AST 315 and AST 515.

**AST 317 Our Universe, the Final Frontier.** 3(3-0) SE.

Prerequisite: AST 114 or 115, MTH 138 or equivalent, or permission. Modern views on the structure of the Universe: its past, present, and future. Topics include the structure and content of our Galaxy and other galaxies, clusters of galaxies, the Big Bang theory (including Inflation), and the eventual fate of our Universe. Cannot receive credit for both AST 317 and AST 517.

**AST 513 Solar and Extra-Solar Systems.** 3(3-0) FO.

Prerequisite: AST 114 or 115, MTH 303 or equivalent, or permission. Formation of planetary systems, planetary dynamics, and comparative planetology. Project required. Cannot receive credit for both AST 313 and AST 513.

**AST 515 Stellar Structure and Evolution.** 3(3-0) SO.

Prerequisite: AST 114 or 115, MTH 303 or equivalent, or permission. Basic concepts of stellar structure, atmospheres, and evolution. Project required. Cannot receive credit for both AST 315 and AST 515.

**AST 517 Galaxies and Cosmology.** 3(3-0) SE.

Prerequisite: AST 114 or 115, MTH 303 or equivalent, or permission. Study of galaxies and the Universe. Topics include the structure and content of our Galaxy and other galaxies, clusters of galaxies, the Big Bang theory (including Inflation), and the eventual fate of our Universe. Project required. Cannot receive credit for both AST 317 and AST 517.

*The following course is open only to graduate students.*

**AST 611 Astronomy for Teachers.** 3(2-2).

Theory and techniques of observational astronomy.

*Additional courses with possible astronomical content include: PHY 131, 141, 386, 390, 409, 486, 495, 499, and 509.*

## Materials Science Courses

**MAT 509 Special Topics in Materials Science.** 1-3, D.

Prerequisite: permission of instructor. Variable content, variable credit course. Topics to be chosen from current areas of interest in Materials Science. May be repeated to a total of 6 hours with a different topic.

**MAT 540 Thermodynamics of Materials.** 3(3-0) F.

Prerequisite: PHY 343 or CHM 506, or permission. Review of classical thermodynamics, equilibrium in thermodynamic systems, the statistical interpretation of entropy, unary and multi-component systems, thermodynamics of phase diagrams and phase equilibrium.

**MAT 550 Introduction to Materials Science.** 3(3-0) F.

Prerequisite: PHY 375 or CHM 507 or permission. Investigation of the relationships that exist between the structure, properties, processing and performance of materials. Different types of materials will be studied with a special emphasis on polymers and semiconductors. Structure-property correlations, including electronic, thermal, and mechanical properties, will be presented for these materials.

**MAT 580 Structure of Solids.** 3(3-0) F.

Prerequisite: PHY 375 or CHM 507 or permission. Review of quantum mechanics, followed by an in-depth study of crystal structures, energy band structures in solids, lattice dynamics, and a survey of the physical properties of solids.

*The following courses are open only to graduate students.*

**MAT 620 Advanced Quantum Mechanics.** 3(3-0) S.

Prerequisite: PHY 575. Advanced topics in quantum mechanics including variational methods, approximation techniques, time-independent and time-dependent perturbation theory, second quantization, and the interactions of light with matter.

**MAT 650 Experimental Design.** 3(1-4) F.

Laboratory techniques necessary for the development of instrumentation. Topics will include elementary computer interfacing, prototype design, mechanical and electronic construction, and reliability testing. The student will develop, design and build a test instrument and study each of the above topics during this process.

**MAT 658 Optoelectronic Materials.** 3(3-0) S.

Prerequisite: MAT 580. Course includes the study of advanced electronic properties of materials, lattice dynamics, and a survey of the optical-electronic interactions in materials.

**MAT 660 Experiments in Physical Characterization.** 3(1-4) S.

Prerequisite: MAT 550 and MAT 580. Laboratory techniques in electronic, optical, and thermal characterization of materials. Students will become familiar with equipment and procedures used in research and commercial laboratories.

**MAT 670 Vapor Synthesis of Materials.** 3(1-4) S.

Prerequisite: MAT 550 and MAT 540. Experimental techniques in the vapor deposition of thin film materials used in the electronics industry. Some modification of the resulting films including chemical doping and ion implantation will also be studied. Experimental methods including computer control and analysis will be studied.

**MAT 680 Polymer Preparation and Characterization.** 3(1-4) S.

Prerequisite: MAT 550 and MAT 660. Preparation of polymers, including the techniques of condensation polymerization, free radical polymerization, and if time permits, plasma polymerization. Characterization experiments will be viscosity measurements, differential scanning calorimetry, and thermal gravimetric analysis. Film preparation including spin coating, aspiration, and doctor blade systems will also be investigated.

**MAT 690 Statistical Applications in Materials Science.** 3(3-0) S.

Prerequisite: MAT 550. Selective topics in materials science important to the design, testing, fabrication, and manufacture of materials whose underlying theme is mathematical modeling based in statistical methods. The topics include mass transport in solids, atomic diffusion on surfaces, adsorption and desorption on surfaces, epitaxial growth, degradation of materials, queuing theory, and operations research.

**MAT 698 Seminar in Materials Science.** 1, S.

Prerequisite: candidate for the MS degree in Materials Science. Selected topics in materials science of a theoretical, experimental, or applied nature with an emphasis on recent developments and their impact. May be repeated for a maximum of 4 hours.

**MAT 699 Research in Materials Science.** 1-6, D.

Prerequisite: permission. Supervised research in areas of materials science. May be repeated, but no more than 12 hours may be counted toward the M.S. degree.

## Physics Courses

**PHY 100 Survey of Physics with Laboratory.** 4(3-2) F. Description of nature as seen by physicists; effects this description and new scientific discoveries will have on society. Laboratories consist of discussions of current relations between science and society, demonstration of precise experimental apparatus, some actual involvement with the experimental method.

**PHY 101 Physics By Inquiry for Educators.** 4(2-4) F,S.

This course is open only to early childhood, elementary, middle school, and special education majors. Laboratory experiences model inquiry teaching methods appropriate for use in early childhood, elementary and middle school science lessons. Science content includes mechanics, optics, heat, electricity and magnetism, properties of materials. Students will increase their understanding of the nature of science.



**PHY 123 Introduction to Physics I.** 4(3-2) F,S.

Prerequisite: eligibility for MTH 261 on mathematics placement test; CIS/CSC 101 or CSC 111 or pass spreadsheet competency examination administered by the Department of Computer Science. An introduction to physical theories covering the content areas of mechanics, fluids, sound, and thermodynamics. A knowledge of the laws of Physics will help the student better understand the world and how these laws can be used to make informed decisions to improve society. A grade of "C" or better is required in this course to take PHY 124.

**PHY 124 Introduction to Physics II.** 4(3-2) F,S.

Prerequisite: "C" grade or better in PHY 123. A continuation of PHY 123 in the content areas of electricity and magnetism, electronics, and optics.

**PHY 131 Mini Physics.** 1(1-0) F,S.

A course whose various sections treat physics or astronomy from a contemporary, historical and/or theoretical point of view. Students should check the current registration schedule to determine the topic associated with each section being offered. Course may be repeated, provided topic and title are different, to a total of 5 hours. Variable Content Course.

**PHY 141 Mini Physics Laboratory.** 1(0-2) F,S.

A laboratory course explaining the use of scientific equipment and experimental procedures. Students should check the current registration schedule to determine the topic and titles for any given semester. Since the content of this course varies from semester to semester, it may be repeated, provided the topic title is different, to a total of 5 hours. Variable Content Course.

**PHY 203 Foundations of Physics I.** 5(3-4) F,S.

Prerequisite: MTH 261 (or concurrent enrollment in MTH 261 if a score of 30 or higher was received on the mathematics section of the ACT). Students must be skilled in using the Microsoft Excel spreadsheet program. (see the Department of Physics, Astronomy, and Materials Science for a list of required spreadsheet skills). First of two semesters in basic calculus physics. Lecture and laboratory topics covered include mechanics, waves, and thermodynamics. A grade of "C" or better is required in this course to take PHY 204.

**PHY 204 Foundations of Physics II.** 5(3-4) F,S.

Prerequisite: "C" grade or better in PHY 203 and; either MTH 280 (or concurrent enrollment in MTH 280) or MTH 288. Students must be skilled in using the Microsoft Excel spreadsheet program (see the Department of Physics, Astronomy, and Materials Science for a list of required spreadsheet skills). Continuation of PHY 203 with lecture and laboratories covering electricity, magnetism, and optics.

**PHY 220 Introduction to Structure and Logic of Digital Computers.** 4(2-4) F,S

Prerequisite: eligibility for MTH 261. Introduction to the internal structures of digital computers; design of gates, flipflops, registers, and memories to perform operations on numerical and other data represented in binary form. Laboratory uses logical blocks for experiments with combinational and sequential networks and simple digital systems.

**PHY 233 Engineering Statics.** 3(3-0) S.

Prerequisite: PHY 203. Application of mechanics to equilibrium problems; topics include principles of center of mass, resultant force, friction, moment of inertia, torque, etc. Course does not satisfy any requirement for a physics major or minor.

**PHY 252 Introduction to Circuit Analysis.** 3(3-0) S.

Prerequisite: MTH 280. A study of Kirchoff's current and voltage laws, resistive circuits with DC sources, network analysis by node voltages and mesh currents, Thevenin's and Norton's theorems, and first order circuits.

**PHY 300 Service Learning in Physics.** 1 F,S.

Prerequisite: 30 hours and concurrent registration in a Physics course designated as a service learning offering. This service component for an existing course incorporates community service with classroom instruction in Physics to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider.

Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than 2 hours of service learning may count toward graduation.

**PHY 324 Instrumental/Computer Interfacing.** 4(2-4) F,S.

Prerequisite: PHY 220. An introduction to computer architecture, machine/assembly language programming, and peripheral interfacing. Topics include microprocessor operation, addressing modes, memory organization, microprocessor buses, reset and interrupts, parallel I/O, serial I/O, timers, and analog/digital conversions.

**PHY 333 Intermediate Mechanics.** 3(3-0) F.

Prerequisite: PHY 203 and PHY 391 and MTH 303. Classical mechanics of particles. Topics include kinematics, dynamics, oscillations, central forces, conservation theorems, scattering, and an introduction to the Lagrangian and Hamiltonian formulations of mechanics.

**PHY 343 Thermal Physics.** 3(3-0) S.

Prerequisite: PHY 203 and MTH 302 (or concurrent enrollment in MTH 302). The macroscopic laws of thermodynamics and the microscopic foundation for those laws. Topics include the microcanonical, canonical, and grand canonical ensembles; Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics; equation of state, thermodynamic potentials, Maxwell's relations, and phase transitions.

**PHY 352 Electronic Circuit Design.** 3(1-4) F.

Prerequisite: PHY 124 or PHY 204. An introduction to the design, construction, and evaluation of basic electronic circuits is presented. The topics for the course include multistage discrete bipolar transistor and FET amplifiers, linear integrated circuits, and regulated power supplies. The circuit analysis tools will include electronic instrumentation and computer simulations.

**PHY 353 Elementary Field Theory.** 3(3-0) F.

Prerequisite: PHY 204 and PHY 391. An introduction to the theory of electric and magnetic fields and their sources. Topics include electrostatic and magnetostatic fields in a vacuum, electric potential, magnetic vector potential, electromagnetic fields, and Maxwell's equations.

**PHY 354 Signals and Systems.** 3(3-0) S.

Prerequisite: PHY 252 and PHY 392. An introduction to continuous time and discrete time signals is presented. Basic system properties such as causality, linearity, time invariance, time and frequency domain representations, and digital filter design and analysis will be studied. General analysis techniques will include matrix algebra, complex variables, Fourier transforms, and Laplace transforms.

**PHY 373 Radiation Physics.** 3(2-2) F.

Prerequisite: PHY 124 or PHY 204. Theory of and measurement techniques for electromagnetic and particulate radiation.

**PHY 375 Twentieth Century Physics I.** 3(3-0) F.

Prerequisite: PHY 204 and MTH 302 (or concurrent enrollment in MTH 302). An introduction to the major developments in physics during this century. Topics include the special theory of relativity, the experimental basis for quantum mechanics, wave-particle duality, introductory quantum mechanics of one-dimensional systems, nuclear physics, and elementary particle physics.

**PHY 385 Experiments in Twentieth Century Physics.** 2(1-2) S.

Prerequisite: PHY 375. A study of basic experimental techniques, data analysis, and analysis of experimental errors. Laboratory experiments chosen from physical phenomena discovered in the twentieth century and may include photoelectric effect, Hall effect, Frank-Hertz experiment, electron spin resonance, and others.

**PHY 386 Undergraduate Research I.** 1(1-0) F,S.

Prerequisite: permission. An introduction to research that requires the selection of a suitable research project, completing a written feasibility study for the proposed project, and making all necessary preparations for the actual pursuit of the project in PHY 486. Graded Pass/Not Pass only.

**PHY 390 Interdisciplinary Topics in Physics.** 1-4, D.

Prerequisite: permission. Topics of interdisciplinary nature; usually team-taught by members of the disciplines involved. Typical topics chosen from: space physics (e.g. lunar studies), chemical physics (e.g. spectroscopy), biophysics, geophysics, mathematical physics, etc. Since



credit and topics vary, the course may be repeated to a total of 6 hours. Variable Content Course.

**PHY 391 Mathematics for Science and Engineering I.** 3(3-0) S. Prerequisite: MTH 302. A study of mathematical techniques widely used in science and engineering. Topics covered include series solutions to differential equations, Fourier series and transforms, vector calculus, matrix algebra, complex functions, and partial differential equations.

**PHY 392 Mathematics for Science and Engineering II.** 3(3-0) D. Prerequisite: PHY 391. A continuation of PHY 391 with topics selected from complex integration, numerical solutions to differential equations, special functions, probability distribution functions, and group theory.

**PHY 399 Cooperative Education in Physics.** 1-3, D.

Prerequisite: acceptance into the Cooperative Education Program and permission. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. This is a variable content course that may be repeated to a total of 6 hours.

**PHY 409 Selected Topics in Physics** 1-5, D.

Prerequisite: permission. Advanced topics in physics which may vary from year to year. Some typical topics: solid state, nuclear structure, plasmas, fluids, astrophysics, applied group theory. Inter-disciplinary topics such as atmospheric physics and spectroscopy might also be offered. Since credit and topics vary, the course may be repeated to a total of 6 hours. Variable Content Course.

**PHY 463 Physical Optics.** 3(3-0) F.

Prerequisite: PHY 204 and PHY 391. Treatment of optical phenomena including waves, superposition, interference, diffraction, polarization, electromagnetic character of light, and light sources and their spectra.

**PHY 475 Introduction to Solid State Physics.** 3(3-0)D.

Prerequisite: PHY 375. An introduction to the mechanical, thermal, and electronic behavior of solids. Topics include crystal structure, reciprocal lattice, crystal binding, phonons, free electron theory, and energy band theory.

**PHY 476 Twentieth Century Physics II.** 3(3-0) S.

Prerequisite: PHY 375 and PHY 391 and MTH 303. A continuation of PHY 375. Topics include applications of quantum mechanics, atomic physics, and spectroscopic notation.

**PHY 485 Instrumentation Circuit Design.** 3(1-4) S.

Prerequisite: PHY 352. A study of a variety of basic transducers used to make measurements of temperature, light, and mechanical forces, and the design of analog integrated circuits used to interface those transducers to computers.

**PHY 486 Undergraduate Research II.** 1(0-2) F,S.

Prerequisite: PHY 386. A continuation of PHY 386 in which the feasibility study from PHY 386 and the research project outcome are to be combined in a written report following a format required for journal publication. An oral presentation of this work will be reviewed by the faculty. Graded Pass/Not Pass only.

**PHY 495 Readings in Physics.** 1-4, D.

Prerequisite: permission of department head. Independent reading; topics not offered in regular courses. Course may be repeated to a total of 4 hours.

**PHY 499 Honors Project in Physics.** 1-3, D.

Prerequisite: permission of department head. Enrollment limited to students of distinguished capability and industry. Students must consult with the physics and astronomy staff concerning their proposed problem prior to enrollment for this course. This course may be repeated to a total of 5 hours.

**PHY 501 Physics and Astronomy By Inquiry.** 2(1-2) F.

Prerequisite: 70 hours including PHY 101. This course is a continuation of PHY 101. Additional topics in mechanics, optics, heat, electricity and magnetism will be covered. The course will also include an introduction to Astronomy. Concepts will be explored using the inquiry approach. Will not count towards a major or minor in physics.

**PHY 509 Special Topics in Physics and Astronomy.** 1-3 D.

Prerequisite: permission. Variable content, variable credit course. Topics to be chosen from current areas of interest. May be repeated to a total of 6 hours with different topic.

**PHY 524 (424) Digital Signal Processing.** 4(2-4) S.

Prerequisite: PHY 324 and PHY 354. Development of real-time digital signal processing systems using a DSP microprocessor, with an introduction to discrete-time signals and systems, discrete Fourier transforms, and digital filter designs.

**PHY 533 Advanced Mechanics.** 3(3-0) D.

Prerequisite: PHY 333. Advanced treatment of the dynamics of particles, rigid bodies, and continuous media. Topics include moving coordinate systems, rigid body motion, mechanics of continuous media, and theory of small vibrations.

**PHY 543 Kinetic Theory and Statistical Mechanics,** 3(3-0) D.

Prerequisite: PHY 343 and PHY 375 and PHY 391. An introduction to statistical theories of physical systems containing large numbers of particles. Topics include the microcanonical, canonical, and grand canonical ensembles, the connection of statistical physics to thermodynamics, Boltzmann statistics, Bose-Einstein statistics, Fermi-Dirac statistics, and applications.

**PHY 553 Electromagnetic Field Theory.** 3(3-0) D.

Prerequisite: PHY 353. Mathematical treatment of electric and magnetic fields in a vacuum and in matter. Topics include solutions to Laplace's and Poisson's equations, multipole expansion of the electric potential, electric fields in matter, potential formulations of electrodynamics, electric and magnetic field boundary conditions, and electromagnetic waves.

**PHY 558 Physics of Semiconductor Devices.** 3(3-0) D.

Prerequisite: PHY 352 and PHY 375 and PHY 391. Topics will be selected from: band structure and electron statistics in semiconductors, doping and carrier transport in homogeneous materials, p-n junction and its characteristics under bias, bipolar devices, unipolar devices, MOSFETs, light-emitting diodes, semiconductor lasers, and integrated circuits.

**PHY 575 Quantum Mechanics** 3(3-0) F.

Prerequisite: PHY 375. A mathematical development of the principles of quantum mechanics and their application to selected systems. Topics include Schrodinger's equation, operators, Heisenberg uncertainty principle, angular momentum, and applications, including the hydrogen atom.

**PHY 590 Applied Group Theory.** 3(3-0) D.

Prerequisite: PHY 333. Recommended: PHY 533 and MTH 533. Basic concepts of point groups as applied to molecular vibrations in relation to Raman and IR emission and absorption; continuous groups as applied to quantum mechanics.

*The following courses are open only to graduate students.*

**PHY 601 Workshop on Topical Issues in Science Education.** 1-3 D.

Prerequisite: permission. Workshop to upgrade understanding of selected topics in science, and improve elementary, middle school and/or secondary science teaching. Each workshop will include performance and analysis of appropriate investigations to enhance understanding of the selected topics. Number of class hours determined by semester hours of credit. May be repeated to a maximum of 6 hours provided the topics are different. Variable Content Course.

**PHY 685 Physics Laboratory for Teachers.** 3(1-4).

Prerequisite: permission. Performance and analysis of secondary laboratory experiments in physics.

**PHY 690 Seminar in Physics.** 2(2-0).

Prerequisite: permission. Extensive paper on agreed topic in physics or astronomy to be read before staff seminars. May be repeated to a total of 4 hours.

**PHY 699 Research in Natural and Applied Sciences.** 1-6, D.

Prerequisite: permission. Supervised research in the natural and applied sciences. May be repeated, but no more than 12 hours may be counted toward the masters degree. Credit may not be applied toward the Master of Science degree in Materials Science.

## University College

115 University College Hall, Phone: 836-6370, FAX: 836-6372  
Email: Ucollege@missouristate.edu



University College Hall.

**Dean:** Professor Curtis P. Lawrence, Ph.D.  
115 University College Hall, Phone: 836-5872, FAX: 836-6372

**Associate Dean:** Professor John C. Catau, Ph.D.  
123 University College Hall, Phone: 836-8346, FAX: 836-6372

The University College provides instruction, service, and development opportunities to the whole university community, including the faculty, staff, and students. University College is the academic home of all entering freshman students and all students who have not declared majors. The University College includes the following departments and programs:

### **General Education**

The College administers the program in general education which is designed to provide the student with educational experiences that will develop skills and knowledge and a breadth of understanding. The program is detailed in the "Academic Programs and Requirements" section of this catalog.

### **Honors College**

The College offers enhanced and advanced study to those students who show exceptional academic achievement and motivation.

### **Interdisciplinary/Individualized Programs**

The individualized programs are offered as alternative degree programs to students with a clear sense of direction and individual motivation. Interdisciplinary courses are offered.

### **Study Away Programs**

These programs offer to students the opportunity to live and study in another culture. Long- and short-term study abroad programs are offered, among which are the Missouri London Program; exchange programs in Australia, China, France, Germany, and Mexico; the International Student Exchange Program; the Intensive Spanish-Language Program in Mexico, and the Intensive French-Language Program in Québec. The National Student Exchange allows for the reciprocal exchange of students among more than 175 colleges and universities throughout the United States and its territories.

## Academic Advisement Center

109 University College Hall, Phone: 836-5258, FAX: 836-6372

Email: [Uadvise@missouristate.edu](mailto:Uadvise@missouristate.edu)

Department Web Site: [www.missouristate.edu/advising/](http://www.missouristate.edu/advising/)

**Director:** Kathy J. Davis, M.S.

Academic advising assists students as they develop meaningful educational plans to help them achieve their life goals. The Academic Advisement Center advises undergraduates who are in the process of selecting majors. Department faculty or staff advisors who are specialists advise students with declared majors. Students should visit the Academic Advisement Center to declare or change majors or to ask questions about academic matters. Many services are offered to help students succeed at Missouri State, such as:

- Individual appointments with academic advisors available by calling 836-5258.
- A Transfer Advisor is available to smooth the transition for students transferring from another institution.
- Students who are interested in health professions but have not selected a particular program of study can make an appointment to review health careers information.
- Undeclared major students register for classes and change their schedules through the Academic Advisement Center.
- To help students choose appropriate and satisfying majors and minors, the Academic Advisement Center sponsors a Majors Fair each September.

## Collegiate Reading and Learning Program

005 Madison Hall, Phone: 836-5005, FAX: 836-6146

Department Web Site: [www.missouristate.edu/studyskills/](http://www.missouristate.edu/studyskills/)

**Coordinator and Lecturer:** Betty J. Thomas, M.S.Ed.

**Lecturer:** Harriet M. Crofts, M.S.Ed.

The Developmental Reading and Study Skills program through IDS 117-College Reading and Efficient Study Techniques, through IDS 118-Enhancing Learning Techniques for College and for Life,

through campus outreach presentations, and through our resource website is designed to enhance reading and study techniques for success in college and life.

## Student Success

212 University College Hall, Phone: 836-8343, FAX: 836-6372

Email: [Ucollege@missouristate.edu](mailto:Ucollege@missouristate.edu)

Department Web Site: [www.missouristate.edu/ids110](http://www.missouristate.edu/ids110)

**Director:** Marty Marty, M.S.A.S.

Student Success administers the freshman success course, IDS 110 *Introduction to University Life*. To facilitate a successful university experience, IDS 110 supports students in the acclimation and adjustment to university life. Students are assisted in enhancing their appreciation of higher education, acquiring

academic skills, cultivating a positive attitude toward learning, exploring career opportunities, clarifying personal values, developing critical thinking skills, and appreciating multicultural diversity.

## Honors College

115 University College Hall, Phone: 836-6370, FAX: 836-6372  
Email: Ucollege@missouristate.edu

Dean: Professor Curtis P. Lawrence, Ph.D.

### Membership

A. Membership is offered to all presidential and governors scholars who have at least an ACT of 27 (or an SAT of 1220 or higher) and who have graduated in the top 10 percent of their high school class. Other students may apply for membership no later than the first semester of the sophomore year. To maintain membership a student must have a 3.25 cumulative grade point average, and should also carry a full-time load of at least 12 semester hours per semester. The Dean will review eligibility at the end of each semester. Members in the HC should normally carry no more than two honors classes in any one semester. They must take one honors class in each of the first four regular semesters. Students who complete the general honors requirements maintain membership in the program by having at least a 3.25 cumulative grade point average at Missouri State, whether, or not, they pursue departmental distinction.

B. Students (including transfer students) may apply to the HC for admission no later than the first semester of their sophomore year. Application to the HC must be made through the honors office and will include an essay describing the student's academic and vocational goals and how the student perceives the HC as facilitating the attainment of those goals. An interview may be required. Such students will be advised by the Dean on an individual basis as to requirements and make-up courses in order to qualify for college membership and graduation in the HC.

Late entering students who qualify to graduate in the HC will be required to follow a program whose rigor is equivalent to that required of students who enter as freshmen.

Students transferring from institutions in which they enrolled in an honors program may contact the Dean for individual advice on entering the HC at Missouri State.

C. First semester freshmen who do not achieve the required grade point average of 3.25 will be given one more semester to achieve that level, provided it is mathematically possible. Students who remove themselves from the college due to low GPA may apply for readmission when they have raised their grades to the required level. Students who remove themselves from the college a second time due to low GPA are not eligible for readmission.

### The Program

A. Advanced Placement credit, International Baccalaureate credit, and "CLEP" credits are available in some departments of the University. These will not carry honors designation.

B. Honors courses, sections, and components may not be taken on a pass/not pass basis. The senior honors project might be taken on a pass/not pass basis upon recommendation of the department and approval of the Dean of the HC.

C. Students are required to complete that part of the honors college designated "General Honors" and to maintain a cumulative 3.25 GPA at Missouri State. In addition, they may elect to complete "Departmental Distinction." Descriptions of general honors and departmental distinction follow.

### D. General Honors

1. Freshman Honors Seminar: All students entering the HC must take the Freshman Honors Seminar. This is a one-semester-hour seminar offered every fall semester. It is designed to introduce the honors student to the HC and to faculty who frequently work with the honors students. This course introduces the honors student to the University through a seminar revolving around a topic of intellectual significance. The student uses the research, faculty, and student resources of the University as a complement to the seminar discussions.
2. General Honors Curriculum: During their first two years in the program, all honors students are required to schedule at least five honors courses in addition to the Freshman Honors Seminar. At least four of the five must come from the University's General Education offerings. To ensure breadth, each student must take at least four different prefixes among the general honors offerings. Normally, students should schedule at least one honors course each semester.
3. Capstone Course: After at least 60 hours have been completed, each honors student is required to take an honors section of GEP 397.

Students who are not members of the HC may be allowed to enroll in courses of HC designation provided they have both a 3.25 cumulative GPA and permission of the Dean.

Honors students who complete the Freshman Honors Seminar, the general honors curriculum, an honors section of GEP 397, and who maintain the 3.25 GPA will qualify for graduation in the HC after fulfilling all other University requirements. Their transcripts and diplomas will read "Bachelor of \_\_\_\_\_ (with possible grade point honors such as *cum laude*, *magna cum laude*, *summa cum laude*) in the Honors College."

### E. Departmental Distinction

1. Senior Project: This may carry 3-9 semester hours of credit. The content of the project is determined by the honors student in consultation with a faculty member serving as project advisor, and is approved by the Dean. This project can be started no earlier than the first semester of the junior year and must be completed before graduation. The HC may provide students the opportunity to publish or otherwise present their projects. The project advisor will normally be from the student's major, and will serve to advise the student in all aspects of the project. The project is, however, to be based on the student's own ideas and work.

Once the project topic is agreed upon the student must write a typed proposal to be approved by the project advisor and the department head who will certify to the Dean that the project has been so approved. The student may apply for a grant of up to \$200 from the Honors Committee. This grant will be administered by the Dean and used to support the student's project. Any equipment purchased with this money will remain with the University.

The completed project and a separate abstract will be approved by the project advisor and the department head. The advisor will

send the approved abstract, the project and a completed project approval form to the Dean.

2. Departmental Honors Offerings: Each department that wishes to participate in the HC must require as part of its degree that honors students take at least 12 hours of departmental honors offerings, including the senior project. All departmental offerings, once approved by the Dean, will carry the suffix "H" attached to the numbers in the student's records to indicate the course was an honors offering. These offerings may take the following forms:

**Honors courses.** These are special courses open primarily to honors students with limited enrollment. The content of the courses is determined by the departments. A new honors course must be approved by the Dean and then follow the regular approval procedure of the Faculty Senate.

**Honors sections.** These are special sections of existing courses that are open primarily to honors students. The enrollment in these courses is usually limited. Departments must nominate sections to the Dean for approval.

**Honors components.** In certain departments it may not be practical to offer a separate honors section or honors course due to low demand. In such cases an "honors component" of one semester hour can, with the approval of the Dean, be added to a regular course or section to recognize honors work (e.g., ART 372, 3 semester hours, becomes ART 372H, 4 semester hours). Such components must be developed in writing by the student in consultation with the faculty member and approved by the department head before being sent to the HC Dean for final approval. No more than two such components in any one department may be counted toward the honors degree.

Diplomas and transcripts of those students who complete both general honors and departmental distinction will read "Bachelor of \_\_\_\_\_ (with possible grade point honors) in the Honors College with Distinction in (major)."

F. Course criteria: Honors courses, sections and components must have the following characteristics when appropriate to the discipline:

1. Reading intensive, including books and journals that reflect recent scholarship.
2. Writing intensive, including writing assignments that are evaluated not only on content, but also on grammar and style. Research projects that include critical analysis in such courses are encouraged.
3. Professorial instruction. Departments should nominate instructors for honors courses, sections and components who are scholars and excellent teachers. Instructors should be committed to the concept of excellence in education. Substitutions of faculty assignments may be made only with the advice and consent of the Dean of HC.
4. Tests. These should require synthesis and critical evaluation in written or oral form of course and library material. In the fine and performing arts this could take the form of an original contribution to the art concerned.
5. Faculty who teach honors courses, sections and components should not expect a normal distribution of grades, nor should they use norm-referenced grading.

## Honors College Courses

**UHC 110 Freshman Honors Seminar.** 1(1-1) F,S.

This seminar will be on a topic of intellectual significance. The student will be required to use the library, research, and faculty resources available in the university. Variable Content Course. Satisfies the Introduction to University Life requirement in the Basic Required Courses of General Education. Open to Honors Program members only.

**UHC 410 Senior Honors Seminar.** 3(3-0) F,S.

This seminar will explore in depth a topic of intellectual significance that lends itself to exploration from a number of different disciplines. Variable Content Course.

## General Education Program

123 University College Hall, Phone: 836-8346, FAX: 836-6372

**Associate Dean:** Professor John C. Catau, Ph.D.

### General Education Program

The General Education program of the University is administered by the Associate Dean of the University College. The program is detailed in the "Undergraduate Degrees and Requirements" section of this catalog.

Appeals for exceptions to the General Education policies and/or requirements should be made to the Associate Dean, University College, room 123. Students who are unsatisfied with the Associate Dean's decision may appeal to the Office of Academic Affairs. Such appeals will be considered by the Degrees Committee.

### General Education Program Courses

**GEP 300 Service Learning in Public Affairs.** 1 F.S.

Prerequisite: 60 hours, concurrent registration in GEP 397. This service component incorporates community service with classroom instruction in GEP 397 ("Public Affairs Issues for the 21st Century") to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of a participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the specific course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated but no more than two hours of service learning may count toward graduation.

**GEP 397 Public Affairs Issues for the 21st Century.** 3(3-0) F,S.

Prerequisite: 60 hours including all the Basic Required Courses except Writing II, or permission of the Dean of University College. An integrative and interdisciplinary experience which addresses public affairs issues and choices of broad importance from the perspectives and interaction of multiple fields. Includes an examination of crucial decisions facing individuals and communities. May not count toward any major, minor, or other programs of study. May be repeated to a maximum of 6 hours with content change on a space available basis. Variable Content Course.

### Approved General Education Capstone Course Topics (GEP 397)

- Animal Rights Movement and the Social Construction of Reality
- The Arts in Public Affairs: Is Art a Public Affair?
- Biological Perspectives for Our Environmental Future
- Business and Society in Modern America
- The Cold War and its End in Theory and Practice
- Corporate Responsibility: The Role of Business as a Corporate Citizen
- Cultural Diversity in Business
- Democratic Ideals and Principles: Theories and Designs for the 21st Century
- Disability Issues for the 21st Century
- Education and the Seduction of Modern Culture
- Engaging Mass Media
- European Societal Issues Affecting Global Citizenship
- Exploring Community Well-Being Through Performance
- Gender, Religion, and Citizenship
- Going Grey Behind Bars: Social, Economic, and Personal Implications of "Getting Tough" on Crime
- Health for the New Millennium
- Homelessness
- Impact of Aging in the Twenty-First Century
- The Legacy of Prometheus: Exploring the Interface of Science and Culture
- Money, Trade, and Society
- Ocean Resources: Use and Protection
- Population: Trends, Issues, and Policies
- Public and Private Identities in Biography and/or Autobiography
- Public Opinion, Propaganda and the Mass Media
- Public Policy Formation Relating to Sexual Orientation
- Religion and Community Service
- Religion, Public Virtues, and the Citizen
- Religion and the State in Western Civilization: From Roman Republic to American Democracy
- Responsible Citizenship and Public Discourse
- The Role of Public Address in American Society
- Science, the Paranormal/Pseudoscience, and Society
- Sherlock Holmes to Today's Courtroom: A History of the Use of Science to Solve Criminal and Historical Problems
- Sources and Symbols of Power and Authority
- Sport and Ethics in America
- Sustaining the Earth: An Integrative Perspective
- Water Resources

## Interdisciplinary Studies

122 University College Hall, Phone: 836-5034, FAX: 836-6372  
Email: Ucollege@missouristate.edu

**Dean:** Professor Curtis P. Lawrence, Ph.D.

The faculty and staff of the University cooperate in teaching the courses and programs in this office. Interdisciplinary Studies offers individualized majors.

### Major

#### Individualized Major (Comprehensive)

The individualized major is intended for any student with a clear sense of direction, motivation and strong concept of an educational program that will best serve individual needs. This major shall be described individually, specifying the area(s) of emphasis.

#### Bachelor of Arts

- General Education (see General Education section of catalog)
- Major of not less than 45 hours with not less than 15 hours of upper division credit
- Specific Requirements for Bachelor of Arts Degree (see "Academic Programs and Requirements" section of catalog)
- General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

#### Bachelor of Science

- General Education (see General Education section of catalog)
- Major of not less than 45 hours with not less than 15 hours of upper division credit
- General Baccalaureate Degree Requirements (see "Academic Programs and Requirements" section of catalog)

#### Procedure for seeking candidacy

- Without written permission by the dean of the student's college, a student cannot be admitted to a baccalaureate degree program until he/she has completed these General Education basic required courses: IDS 110/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 135 or higher, and PED 100. Apply through the Academic Assistance Office (UNVH 122) for admission to an individualized major. A minimum of 25 hours must be completed after the advisory committee has approved the program.
- The student shall submit to the Dean of the University College a written statement of intention, aims and background, and transcripts of prior work (minimum 2.00 grade point average required). In some cases, a personal interview or supporting information (such as faculty recommendations) may be required.
- A student accepted to pursue an individualized major is assigned, by the Dean of the University College, three faculty advisors from departments in which the student will work. No two faculty members shall represent the same department. These faculty members shall comprise the student's advisory committee. The student shall designate one member as major advisor.
- It shall be the responsibility of this advisory committee to approve the student's degree program to satisfy the goals and purposes of the proposed individualized program. It is also the responsibility of this committee to evaluate the student's transcript and determine the number of credit hours previously earned which will be applied toward the hours required for this major. The approved program, including a recommended title, shall be submitted to the Dean of the University College for final approval.
- All agreements shall be filed as a part of the student's degree program. Any alteration of the degree program must be approved by the advisory committee. Changes of schedule shall be handled by the major advisor provided the student's degree program is not altered.

### Interdisciplinary Studies Courses

**IDS 101 Interdisciplinary Seminar.** 1-3, SU.

Variable content, variable credit course that is offered only in the summer term and only to the participants of the Pre-college Summer

Academy. Topics will be interdisciplinary in nature and will usually be team taught.

**IDS 110 Introduction to University Life.** 1(1-0) F,S.

Designed to facilitate a successful university experience, this course introduces students to the purposes and processes of higher education. Emphasis is placed on the holistic development of the student. Required of freshmen. Honors students must substitute UHC 110 for this class.

**IDS 117 (RDG 107) College Reading and Efficient Study Techniques.** 2(1-2) F,S.

Designed for any student who wishes to develop stronger study and learning techniques such as note taking, test taking and preparation, time management, text study, memory and concentration; to improve reading rate and comprehension; and to develop a stronger vocabulary. This course may not be used to satisfy general education requirements and may not be credited on any major or minor offered by any department. Students may not receive credit for both IDS 117 and 118.

**IDS 118 Enhancing Learning Techniques for College and Life.** 1(1-0) F,S.

Designed for any student who wishes to develop stronger study and learning techniques such as notetaking, test taking and preparation, time management, text study, memory and concentration. This course may not be used to satisfy general education requirements and will not count toward any major or minor offered by any department. Students may not receive credit for both IDS 117 and 118.

**IDS 120 Approaches to Career Life Planning.** 1(0-2) F,S.

Designed to assist students in learning the process and techniques of making appropriate academic and career choices which will enable them to fulfill their life objectives.

**IDS 250 Special Topics: International Travel Courses.** 1-6, D.

A variable content course with topics involving a foreign travel component. Course offerings represent selected and interdisciplinary subjects. Some courses under this designation may be interdepartmental and team-taught. May be repeated as the topics change.

**IDS 275 Resident Assistant Seminar.** 1(0-2) F,S.

Designed to facilitate new Resident Assistants in developing skills necessary to work with students living in the residence halls.

**IDS 280 Student/Life Leadership.** 1(0-2) S.

The course will focus upon the study and practical application of student and student organization leadership skills and the knowledge of campus and community resources. Students will become actively involved in leadership as they participate in individual and group learning experiences.

**IDS 310 Peer Leadership.** 1(1-0) D.

Designed for the study and practical application of leadership skills that will benefit Peer Leaders working with IDS 110 instructors and students. Open to Peer Leaders only. May be repeated to a total of 3 hours.

**IDS 350 British Life and Culture.** 3(2-2) F,S.

Through a historical and topical format students will study the interdisciplinary aspects of Great Britain. Lectures will be enhanced through British lecturers and field trips illustrative of the lectures. LONDON PROGRAM ONLY.

**IDS 397 International Culture and Study Abroad.** 3(3-0) F,S,Su.

An interdisciplinary study of other cultures while living and studying in an international venue. Through history, language, literature, sociology and other disciplines the student will acquire a deeper understanding of another culture and of the American culture. May be repeated once with content change. Variable Content Course.

## Study Away Programs

205 University College Hall, Phone: 836-6368, FAX: 836-6372  
Email: Ucollege@missouristate.edu

**Dean:** Professor Curtis P. Lawrence, Ph.D.

Students enrolled in these programs on a full-time basis are eligible to apply for all federal, state, and university financial aid. Further information about any program can be obtained from the University College.

### Missouri London Program (MLP)

The University participates in the Missouri London Program sponsored by the Missouri Consortium for International Programs and Studies. Through this program students can live and study in London, England, and receive credit directly from Missouri State. Registration is through Missouri State during the regular enrollment for each semester. Courses offered will vary from semester to semester and will be taught by participating faculty from each of the consortium institutions and by British nationals.

The Missouri London Program is located in Kensington in central London. Classrooms are located at the Imperial College of the University of London. Frequent excursions are made to English and European places of interest.

### Australia Exchange

The University participates in a reciprocal student exchange program with Curtin University of Technology, Perth, Western Australia; University of Ballarat, Victoria; and University of Tasmania, Hobart. Through this program, students pay Missouri State tuition and fees to study for a semester or a year in Australia. Transfer of credit is arranged through the University College. Coursework is offered across the curriculum.

Perth is located on the Indian Ocean, 2000 miles west of Sydney. It is the commercial center for the state of Western Australia, and enjoys close linkages with its Asian neighbors. The temperate climate encourages an outdoor lifestyle and participation in a variety of outdoor sports, including surfing, sailing, and hiking.

Ballarat is located in Southeast Australia and enjoys a Mediterranean climate and vicinity to Melbourne.

Hobart is the capital of the Island of Tasmania.

### China Exchange

The University has a reciprocal exchange agreement with Qingdao University in the Peoples Republic of China. Students from Missouri State in China will study Chinese language, history, and culture.

### France Exchange

The University enjoys a bilateral exchange with the University of Blaise Pascal in Clermont-Ferrand. The exchange is a reciprocal tuition exchange and requires fluency in French. The program is currently directed toward business students.

Clermont-Ferrand is about 280 kilometers south of Paris in the Massif Centrale. It is the place where Julius Caesar defeated Vercingetorix in the Galic Wars.

### Germany Exchange

The University participates in a reciprocal student exchange program with the Philipps-Universität in Marburg, Germany. Through this program students pay Missouri State tuition and fees and room and board, and are provided with the same benefits at the host institution. The program requires fluency in the German language. Transfer of credit is arranged through the University College. Coursework is offered in a wide variety of disciplines. Students study for one academic year.

Marburg is located in central Germany, approximately one hour away from Frankfurt. It has a well-preserved medieval center of shops and houses. The university was established in the sixteenth century and

is a prominent part of the life of the city. Approximately 1000 foreign students are part of its student body of 16,000.

### Magellan Exchange

Business students can participate in exchanges with various universities in Western Europe where they can study international business topics.

### Mexico Exchange

The University participates in a reciprocal exchange with the Universidad Iberoamericana in Mexico City. The student pays Missouri State tuition and studies in Mexico. Living arrangements are at the student's expense, but are limited to home-stay facilities provided by the Universidad Iberoamericana. Students experience total immersion in the language as they study with native speakers and live with host families. Students may choose a program of intensive language and courses in Mexican art, literature, politics and other subjects. Transfer of credit is arranged through University College.

Mexico City is the largest city in the world. The Universidad is a private university that is comprehensive and offers a wide range of majors and fields of study. Mexico city enjoys warm days but its altitude assures cool and comfortable nights.

### International Student Exchange Program (ISEP)

The International Student Exchange Program allows students of its member campuses to study at host institutions in more than 30 countries around the world. Through this program, students pay Missouri State tuition, room and board, and are provided with the same benefits at their host institution. The program allows for study in English, as well as in French, Spanish, German, and several other foreign languages. Transfer of credit is arranged through the University College. Coursework is offered across the curriculum.

Students have participated in ISEP programs in England, Scotland, Switzerland, Germany, France, and Sweden. Countries in Europe, Africa, Southeast Asia, Latin America, and Australia participate in the program.

### National Student Exchange (NSE)

The National Student Exchange provides students the opportunity to study at one of more than 175 member campuses across the United States and its territories. Through the program, students pay Missouri State tuition and fees to study at another American university for a semester or a year. Transfer of credit is arranged through the University College. Coursework is offered across the curriculum.

Students have participated in the NSE in Las Vegas, New Orleans, and over 20 states, including Alaska, Arizona, California, Colorado, Florida, Georgia, Guam, Hawaii, Maine, Maryland, Minnesota, Montana, New York, North Carolina, Oregon, Pennsylvania, South Carolina, Texas, Washington, Wyoming, Puerto Rico and the Virgin Islands.

### Summer Intensive Language Programs

The University offers students the opportunity to study French or Spanish in summer programs that are 4-6 weeks in duration. Students are enrolled in a local university and experience "total immersion" in the language as they study with native speakers and live with host families. Transfer of credit is arranged through the University College.



The **Spanish-Language Program** is located in Spain. It is designed to give students total immersion into Spanish language, history, and culture. The four-week program is held in Salamanca, Spain. Weekend excursions provide opportunities for students to experience the Spanish countryside. Excursion destinations include Santiago de Compostela, Toledo, Avila/Segovia and Madrid.

The **French-Language Program** is located at the Université Laval in Québec City, Canada. Students enroll in a 4-week program which might involve intensive language training, or classes in literature, music, or other subjects, or a combination of the two. Québec City on the banks of the St. Lawrence River, was founded in the seventeenth century and is the only walled city in North America.

### **Short-Term Study Programs**

Missouri State professors offer a variety of options for students to participate in short-term (2-5 weeks) programs between spring and fall semesters, or during the winter intersession (early January). The programs vary from year to year. In the past, study tours to Spain and Portugal, Australia and New Zealand, Greece and Italy, London, Europe, Israel, Mexico, China, and Russia have been offered.

## College of Continuing Education and The Extended University



Interactive Video Classroom.

**Dean: J. Ronald Fairbairn, Ph.D.**

**Academic Outreach:** 303 Alumni Center, Phone: 836-4128

**Center for Continuing and Professional Education:** Jim D. Morris Center for Continuing Education, 301 S. Jefferson Ave., Phone: 836-6660

**Dean's Office:** 314 Carrington Hall, Phone: 836-4127

**Distance Learning and Instructional Technology Center:** Phone: 836-6111 or 1-888-767-8444

**Evening College and Adult Student Services:** 422 Carrington Hall, Phone: 836-6929 or 1-877-678-2005

**Intersession and On-Campus Special Credit Programs:** 422 Carrington Hall, Phone: 836-4126

**Registration Services:** 422 Carrington Hall, Phone: 836-4126 or 1-877-678-2005

The College of Continuing Education and the Extended University coordinates the following programs and services:

### **Academic Outreach**

This department uses a wide range of traditional and technology-based delivery systems to serve the needs of students throughout southwest Missouri and beyond. It coordinates with academic departments to deliver instruction in a variety of ways: through interactive video, web-based instruction, traditional off-campus courses, telecourses, courses-by-video or courses in CD-ROM format, and dual credit courses offered in high schools. This department provides special support services for the convenience of the off-campus and distance learning student.

### **Center for Continuing and Professional Education**

This rapidly growing program provides a wide range of noncredit learning opportunities for specific target populations as well as for the general public. It includes conferences, workshops, professional development programs, youth programs, and in-house training programs custom-designed for various groups and organizations.

### **Distance Learning and Instructional Technology Center**

The Distance Learning and Instructional Technology Center provides the technical support necessary for the delivery of media-based instruction. Primarily, the Distance Learning and Instructional Technology Center supports the distance learning programs of Academic Outreach of the College of Continuing Education and the Extended University. Internet-based courses, computer assisted instruction, interactive television classrooms, telecourses, courses-by-video, and CD-ROM are all a part of the instructional opportunities available at Missouri State.

### **Evening College and Adult Student Services**

Through this program, a wide range of courses and special services are provided which are designed especially to help evening, part-time, and non-traditional students. Adult Student Services provide a focused and coordinated resource for addressing student concerns related to admissions, academic advisement, reinstatement and scholastic action.

### **Intersession and Special Credit Programs**

Intersession provides an exciting group of short-term, concentrated classes for credit during times when the regular academic semesters are not in session. Credit classes tailored to meet the needs of special populations are also available.

### Registration Services

This office serves as the primary application, registration, and referral source for students who are interested in credit courses offered through Continuing Education.

### Summer School

Undergraduate and graduate classes are provided during the summer session using a variety of schedules and formats. This includes regular lecture classes, workshops, weekend classes, field trips, and tours. The College of Continuing Education and the Extended University acts as a facilitator for the academic departments as well as for the students who participate in Summer School special programs. Support services include mail and on-site registrations, promotion and publicity, on-site coordination, and providing the financial impetus for some special programs.

## Academic Outreach

303 Alumni Center, Phone: 836-4128, FAX: 836-6016  
Email: CE@missouristate.edu

**Director:** Steve Robinette, M.A.

The Department of Academic Outreach works with academic departments and colleges throughout the University to provide a wide range of credit courses at off-campus sites beyond the Springfield campus, using traditional off-campus instruction and technology-based delivery systems.

### Traditional On-site Instruction

Graduate-level courses are taught on-site at the Joplin Graduate Center, on the West Plains campus and at the Nevada TeleCenter. In addition to these sites, Academic Outreach will coordinate the delivery of courses to communities with a demonstrated need throughout the service area.

#### Joplin Graduate Center

Joplin graduate students can complete Master of Science in Education (Elementary), Master of Business Administration, Master of Social Work, or Master of Accountancy degrees through the Joplin Graduate Center on the Missouri Southern State University campus. Courses in educational administration, secondary education, reading and special education, or middle school are also often taught in Joplin. In addition to "on-site" courses, the Joplin Graduate Center is also a current BearNet interactive video site.

#### West Plains

A variety of undergraduate upper-division courses are available through a combination of "on-site" instruction and those delivered via the BearNet interactive video network on the West Plains Campus. West Plains students who complete an associate's degree can complete a Bachelor of Science degree in General Business, Bachelor of Science in Education degree in Elementary Education, or a Bachelor of Applied Science in Technology Management from the Springfield campus through BearNet. Educators will find a large number of graduate-level courses, while Nursing students may complete classes that apply toward a Bachelor of Science in Nursing degree via BearNet.

#### Lebanon

The University offers courses at the Nelson Education Center in Lebanon, MO that apply towards bachelors degrees in elementary education, general business, and industrial technology; masters degrees in business administration, educational administration, and elementary education; and a specialist degree in educational administration.

Students can complete the entire Master of Business Administration degree with courses offered in Lebanon. Additionally, the Management Development Institute offers non-credit business training classes. Courses are delivered to Lebanon from the Springfield campus via the BearNet interactive network.

### BearNet – Interactive Video System

Technology-based courses delivered via BearNet, are often used to augment traditional "on-site" courses in West Plains and Joplin. These same courses are often offered multipoint at other BearNet sites in Lebanon, Nevada, Neosho, Branson and Mountain Grove. BearNet has been and is currently being used to enable students and communities to connect almost anywhere in the world with interactive video capabilities.

### Missouri State Online-Internet Based Instruction

The University's newest for-credit distance education program, Missouri State Online, is a campus without walls—an asynchronous (anytime, anyplace) learning environment accessed by both the student and instructor via a computer connection to the Internet and the use of a special course management system. Students with a personal computer and Internet access can complete course assignments from anywhere in the world at the time of day that best suits their schedules. In addition, Missouri State Online students can register, order textbooks, do library research and get technical assistance without ever coming to campus.

### Telecourses and Interactive CDs

The university offers several undergraduate courses for academic credit through televised broadcast courses, broadcast over Ozarks Public Television/PBS and over Springfield's educational access cable provider. Telecourse lectures have been duplicated onto CD-ROM sets which enable the entire course to be viewed on personal computer. These CD-ROM sets are available for purchase at the University Bookstore. In addition to televised courses, interactive CD courses have been created by the University offering students a unique delivery vehicle. With this new computer based system, students experience lectures, audio and video streaming, access to the Web, and course transcripts using their own computers.

### Off-Campus Pre-College Dual Credit Program

Academic Outreach coordinates the off-campus pre-college program for high school students. Through this program qualified high school students are able to receive both high school and college credit in specially approved courses offered at participating high schools. Contact Academic Outreach at 417-836-4128 for more information about this program.

## Center for Continuing and Professional Education

Jim D. Morris Center for Continuing Education, 301 S. Jefferson Ave.

Phone: 417-836-6660, FAX: 417-836-7674

Email: CE@missouristate.edu, Web Site: ccpe.missouristate.edu

**Director:** Don E. Schlueter, M.P.A.

The Center for Continuing and Professional Education provides numerous professional development programs which are tailored to meet the needs of specific groups, associations, and organizations. Working closely with various University academic departments, professional continuing education and training is provided for business and industry, health care organizations, professionals in social service agencies and mental health services.

The Center is one of two University units authorized to award Continuing Education Units (CEUs) for satisfactory completion of non-academic credit offerings and courses. The CEU program is a nationally recognized means of measuring and documenting continuing education experiences designed to improve one's work and professional skills.

### Professional Certificate Programs

The Center for Continuing and Professional Education offers many opportunities for professional development and education that meet the specific needs of individuals, health care professionals, government agencies, business and industry throughout Missouri and nationwide. The following professional certificate programs are currently available.

- Alzheimer's Caregiver Certificate
- Annual Addictions and Disorders Institute
- Midwest Institute for Play Therapy
- Missouri Interpreter Certification System
- Modular Education Program for Activity Professional I & II
- Nursing Home Administrator Certificate
- Computer Institute
- Substance Abuse Counseling
- Victim Advocate Certificate
- Wound Care Seminar

### Continuing Education

Health and human service professionals can take advantage of a variety of test preparation and national certification programs. The Center is an "approved provider" for a number of state and national accrediting bodies and professional organizations.

- American Psychological Association
- Association for Play Therapy, Inc.
- Bureau of Emergency Medical Services
- Kansas Board of Adult Care Home Administrators
- Kansas Dietitian Department of Health and Environment
- Kansas State Board of Nursing
- Licensed Clinical Social Workers
- Marriage and Family Therapy
- Missouri Board of Nursing Home Administrators
- Missouri Commission for the Deaf
- Missouri Peace Officer Standards and Training
- Missouri Substance Abuse Counselor's Certification Board, Inc.
- National Association of Activity Professional
- National Association of Boards of Examiners for Nursing Home Administrators (NAB)
- National Board of Certified Counselors
- National Board of Certified Dietary Managers

### Computer Institute

The Computer Institute provides professional training opportunities for companies and area professionals in software applications and technical training. We offer training levels for everyone from beginner to the advanced user. The Computer Institute combines outstanding instruction with top-of-the-line computers for a pleasant, results-oriented learning experience.

The following advanced technical training tracks are designed for career changers and professionals interested in updating their skills and

include A+, Network+, Microsoft Certified Systems Engineer, Novell and Cisco. Qualifying certification exams are available at our Authorized Prometric Testing Center.

Training in accounting for businesses in MAS 90/MAS 200 is also available.

### Customized Computer Training

The Computer Institute offers customized training for area professionals. In partnership with business, the Computer Institute designs training programs, a series of classes or one class, to enhance computer efficiency.

Visit CCPE on the Web: <http://ccpe.missouristate.edu> to view courses offered in the coming months, get answers to frequently asked questions, find maps for course locations and register for classes.

### English Language Institute

The Center sponsors the English Language Institute, an undergraduate study program. This program is designed to assist international students who wish to enter Missouri State University or any other school with an intensive English language and communication experience.

### American Sign Language

The Center offers American Sign Language (ASL) classes to meet the needs and interests of students in four distinct areas: Missouri Licensed Interpreter test preparation, continuing education, community interest, and classes for the Deaf and hard of hearing.

### Summer Youth Program

#### Camp Bear (K-9)

An innovative Summer Youth Program is sponsored by the Center from June through August and is located on the Springfield campus. Summer day programs for all youth and teens in the community offer a healthy mix of academic enrichment, developmental skills, special interest, recreation and FUN!

### Organize Your Conferences and Seminars through the Center

A wide range of services are available to groups and organizations wanting to hold a conference or seminar. Services include help with program marketing and publicity, budgeting and financial management, computerized registration services, facilities and food service, certificates of completion, etc.

The Center is an approved provider of several state and national accrediting bodies and professional organizations which allow conference and seminar participants to earn professional licensure and Continuing Education Units. Call 836-6660 to speak with a program coordinator.

### Institute for School Improvement – Continuing Education Partnership

Continuing Education works with the Institute for School Improvement to provide special credit programs to those in professional education to increase their teaching and administrative skills. This partnership's mission is to promote lifelong learning for PK-12 educators by providing specialized staff development for school districts, as well as providing a series of classes, seminars, and workshops for teacher throughout the service area. For additional information about programs directed for southwest Missouri teachers call 417-836-6660.

### Missouri Peace Officer Standards and Training Courses

Missouri State University is an Approved Provider of Missouri Peace Officer Standards and Training (POST) continuing education. Training sessions in all curriculum areas are available, both at the Jim D. Morris Center, and at sites throughout the Missouri State University service area.

## Distance Learning and Instructional Technology Center

102 Strong Hall

Phone: (417) 836-6111 or toll-free (888) 767-8444, FAX: 836-6494

Email: [dlit@missouristate.edu](mailto:dlit@missouristate.edu)

**Director:** A. Gary Ellis

The Distance Learning and Instructional Technology Center provides the technical support for distance learning programs servicing both local and remote audiences. This technical support extends from technical help response for enrolled distance learning students, to maintenance of distance learning systems, and to collaboration with faculty on design and development of distance learning modules. Examples of these distance learning systems and modules are Internet-based instruction, interactive video classrooms and telecourses.

### Missouri State Online

Missouri State offers Internet-based programs in a growing number of disciplines. The Distance Learning and Instructional Technology Center supports Missouri State Online via design and development of internet courses, Help Desk response to enrolled students, and maintenance of computer systems that house course modules.

### BearNet—Interactive Television Classroom Network

The University operates an interactive television classroom network – BearNet – which is a two-way, audio/video connection offering live communication between students and teachers at multiple, distant locations. Students at all locations can see and hear each other, as well as the instructor. All sites mutually participate in lectures, presentations, discussions and other standard classroom activities.

BearNet is committed to facilitate access to educational resources throughout the 24 county service area, and additionally, provides links to state, national and international videoconferencing networks. BearNet includes sites in Springfield, West Plains, Mountain Grove, Joplin, Nevada, Lebanon, Branson and Neosho.

### Telecourses and Interactive CDs

The university offers several televised courses broadcast over Ozarks Public Television/PBS and over Springfield's educational access cable provider. Telecourse lectures have been duplicated onto CD-ROM sets which enable the entire course to be viewed on personal computer. These CD-ROM sets are available for purchase at the University Bookstore and can also be viewed at the Meyer Library. In addition to televised courses, interactive CD courses have been created by the University offering students a unique delivery vehicle. With this new computer based system, students experience lectures, audio and video streaming, access to the Web, and course transcripts using their own computers.

## Evening College and Adult Student Services

422 Carrington Hall, Phone 836-6929, toll-free 1-888-879-7678, FAX: 836-4929  
Email: CE@missouristate.edu

**Director of Academic Services and the Evening College:** Susan Cohen, M.A.

### Evening College

The Evening College serves both the regular day student who desires evening courses as well as adult students who may need educational opportunities at night. During each of the fall and spring semesters, more than 700 evening sections from more than thirty academic disciplines are offered with an enrollment of more than 9,500. Students can select from a wide variety of undergraduate and graduate courses to help them progress toward their educational goals. In some cases total degree programs or large portions of a major can be completed almost exclusively through evening classes. To confirm what portion of a given academic degree or major can be completed in the evening, students are encouraged to contact the specific department offering the program.

The Evening College is a vital and integral part of the overall academic program of the University, not a separate unit with its own entrance requirements and faculty. As a result, the academic quality of the Evening College is identical to that of the rest of the University, and the same admission requirements apply to both day students and evening students.

### Special Services for Adult and Evening Students

The University recognizes that many students are adults who must attend college on a part-time basis and assume a variety of other responsibilities along with their academic work. For that reason, a wide range of services and special programs are offered through the College of Continuing Education and the Extended University in cooperation with other administrative offices on campus especially to assist students of this type. A few of these services are shown below, but students are encouraged to call or visit Adult Student Services for further information.

**Adult Student Welcome/Orientation Programs.** Orientation programs are offered each fall and spring semester to assist evening and adult students who wish to learn more about the University, learn ways to improve their chances for success with college work, and meet other students who have similar concerns.

**Nondegree Undergraduate Admission Program.** In many cases, students may be admitted as nondegree undergraduate students, be exempt from usual admission requirements, and still be able to take a limited number of undergraduate courses. Students in this admission classification do not have to submit high school transcripts or ACT scores. This program is especially attractive to those adult students who may be hesitant about meeting regular admission requirements until they are more confident about their performance in university courses. It should be emphasized that non-degree undergraduate students are limited to 8 credit hours per semester and an accumulated total of 24.

**The Postbaccalaureate Nondegree Program.** Some students with a baccalaureate degree may also be admitted as Postbaccalaureate nondegree seeking (PB). Under this classification, they may take unlimited undergraduate hours and a limited number of graduate hours (9) for credit.

**Office Hours.** Throughout most of the regular academic year, the Adult Student Services Office keeps extended office hours so that evening students can handle a number of administrative procedures after normal work hours. During each semester, the office is open Monday through Thursday until 6:00 p.m. Extended evening and weekend hours are also available by appointment. When classes are not in session, we encourage students to confirm office hours before making a special trip to campus.

**Scholarships.** Each fall and spring semester a limited number of scholarships are awarded for new adult students who exhibit outstanding potential for academic success.

**Academic Advising Services.** Adult and evening students can take advantage of advising services with or without admission to the University. Our staff will be happy to sit down and discuss your concerns, whether it is about financial assistance, how to add college work to an already busy schedule, or a wide range of other matters related to your educational plans.

**Admission Services.** Nondegree seeking undergraduate students and nondegree seeking graduate students may be admitted through the College of Continuing Education and the Extended University.

**Registration Services.** Evening students, graduate students, and nondegree seeking students may register by mail, fax, or in person.

**Career Center.** An ideal first step for undecided students would be to visit a career counselor in the Career Center. Career counselors support students in identifying their strengths, interests, personality and values based on intake interviews and self-assessments. Once having gathered this knowledge, students are better prepared to select a major field of study and develop a career plan. Please call (417) 836-5636.

**Senior Citizen Fee Waiver Program.** Adults 60 years of age or older are eligible to register for classes and have the required student fees waived. Students in this classification are admitted as non-degree seeking students and can take up to 8 hours per semester to a total of 24 credit hours.

**Alpha Sigma Lambda.** Adult students have the opportunity to be a part of a prestigious organization that recognizes their special achievements of academic success while facing competing interests of family, community and work.

**Placement Testing.** Students who have not earned prior college credit in English composition or mathematics must take the English and/or math placement tests. This can be arranged by appointment for your convenience through the Office of Adult Student Services.

**ACT/SAT Requirement.** Students 22 years of age or older are not required to have the ACT/SAT scores on file for admission or registration purposes.

## Intersession and Special Credit Programs

422 Carrington Hall, Phone: 836-4126, FAX: 836-4929  
Email: CE@missouristate.edu

**Director:** Mary Ann Claypool, M.S.

“Intersession” is the term used for those time periods that fall between the regular academic semesters or sessions. A Winter Intersession and Summer Intersession are scheduled in early January and late May respectively and Fall Intersession occurs between Summer School and the fall semester. The Intersession Program, administered by the College of Continuing Education and the Extended University, enables 1,000-1,800 students each session to pursue their education throughout the year. The regular, full-time day student as well as the evening or part-time student can select from more than 150 one, two, or three credit hour classes that will help to meet degree requirements.

Faculty from all colleges on campus have offered classes during the Intersession – many of which are innovative, special topics that are of interest to the community-at-large. In addition, the Intersession pro-

vides a vehicle through which the academic departments can meet the continuing education needs of special community groups.

Continuing Education works in cooperation with academic units across the campus to offer special credit classes which are designed to meet the specific needs of professional groups and community organizations as well as current students. These classes provide academic credit, but are often structured as workshops or intensive short-term classes for the convenience of the participants they are designed to serve.

Groups interested in exploring academic credit offered at on or off-campus sites, on weekends, or according to other special arrangements, should contact the College of Continuing Education and the Extended University at (417) 836-4126 for further information.

## Summer School

422 Carrington Hall, 836-4126, FAX: 836-4929  
Email: CE@missouristate.edu

**Director:** Associate Vice President for Academic Affairs

**Coordinator for Special Program Services:** Mary Ann Claypool, M.S.

The Summer Session is uniquely organized when compared to the other semesters which make up the academic year. Summer School is divided into four distinct terms or “sessions” with each one ranging from four to eight weeks in length. Most Summer School day and evening classes are offered throughout the summer and utilize a variety of scheduling formats. One example of these special programs is the Summer Weekend Program. Each summer, several one credit hour classes are offered on a weekend format and often focus on topics of special interest to a variety of populations.

Summer School offerings are developed by many different academic departments throughout the University with topics and schedules which are often quite varied. In addition, some programs are developed fairly late in the academic year in response to special community needs and may not meet publication deadlines for the class schedule. To assist prospective students in getting accurate information, Continuing Education serves as a central information point concerning Summer School programs. For assistance call the College of Continuing Education and the Extended University, (417) 836-4126.

## Graduate College

306 Carrington Hall, Phone: 836-5335, or 1-866-SMSGAD, FAX: 836-6888

Email: GraduateCollege@missouristate.edu College Web Site: graduate.missouristate.edu



**Dean: Professor Frank A. Einhellig, Ph.D.**

**Associate Dean: Associate Professor Barbara A. Bushman, Ph.D.**

Missouri State University offers graduate degrees in 42 program areas and graduate certificates in 10 areas:

**Master of Accountancy**

**Master of Arts**

Communications

English

option areas:

Creative Writing

Literature

TESOL

History

Religious Studies

Theatre

Writing

option areas:

Rhetoric and Composition

Technical and Professional Writing

**Master of Arts in Teaching**

**Master of Business Administration**

**Master of Health Administration**

**Master of International Affairs and Administration**

option areas:

Comparative Political Systems

Defense and Strategic Studies

International Economics and Business

International Relations and Administration

Policy Analysis and Management

**Master of Music**

option areas:

Conducting

Music Education

Music Theory and Composition

Pedagogy

Performance

**Master of Natural and Applied Science**

**Master of Physical Therapy**

**Master of Public Administration**

options areas:

Health Care Administration

Public Management

Public Policy

**Master of Public Health**

options areas:

Environmental Health

Epidemiology

Family Health

Gerontology

Health Services Administration

Individualized

Public Policy

**Master of Science**

Administrative Studies

option areas:

Applied Communication

Criminal Justice

Environmental Management

Project Management

Biology

Cell and Molecular Biology

Chemistry

Communication Sciences and Disorders

options areas:

Audiology

Education of the Deaf and Hard of Hearing

Speech-Language Pathology

Computer Information Systems

Counseling

options areas:

Community Agency

Elementary School Counseling

Secondary School Counseling

Defense and Strategic Studies

Geospatial Sciences in Geography and Geology

Health Promotion and Wellness Management



Materials Science  
 Mathematics  
 Nurse Anesthesia  
 Physician Assistant Studies  
 Plant Science  
 Psychology  
 options areas:  
 Clinical  
 General  
 Industrial/Organizational

**Master of Science in Education**

Educational Administration  
 option areas:  
 Elementary  
 Secondary  
 Elementary Education  
 Instructional Media Technology  
 Reading  
 Secondary Education  
 options areas:  
 Agriculture  
 Art  
 Biology  
 Business  
 Chemistry  
 Earth Science  
 English  
 French  
 Geography  
 German  
 History  
 Latin  
 Mathematics  
 Music  
 Natural Science  
 Physical Education  
 Physics  
 Social Science  
 Spanish  
 Speech and Theatre  
 Vocational Family and Consumer Sciences  
 Special Education  
 option areas:  
 Mild to Moderate Disabilities  
 Low Incidence Disabilities  
 Low Incidence Disabilities-Visual Impairment Focus

**Master of Science in Nursing**

options areas:  
 Family Nurse Practitioner  
 Nurse Educator

**Master of Social Work****Specialist in Education**

options areas:  
 Elementary Principal  
 Secondary Principal  
 Superintendent

**Doctor of Audiology****Cooperative Programs**

Missouri State University collaborates in a cooperative program with the University of Missouri-Columbia leading to a Doctorate in Educational Leadership. A major part of the course work is taken at Missouri State. The degree is conferred by the University of Missouri-Columbia.

Missouri State also collaborated with the University of Missouri-Columbia to provide access to Missouri State courses that can be applied to the Master of Arts in Library and Information Science, an ALA-accredited program offered by UM-C. Student pursuing the UM-C degree enroll through MUDirect. For more information on this collaborative arrangement, contact Dr. J.B. Petty, Meyer Library, (417) 836-4529.

The Master of Arts in Teaching offered by Missouri State University is offered from both the Springfield campus and the Joplin Graduate Center on the campus of Missouri Southern State University. The Joplin-based program has been developed through a Missouri State University-Missouri Southern State University partnership. Students completing the program through the Joplin Graduate Center will receive a diploma issued by Missouri State University signifying completion of the cooperative program with Missouri Southern State University.

**Accreditation**

Missouri State University is accredited to offer master's and specialist degrees and a professional doctorate degree by **The Higher Learning Commission and a member of the North Central Association**. In addition, specific graduate programs of the University are professionally accredited by the following agencies.

AACSB International – The Association to Advance Collegiate Schools of Business  
 Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)  
 American Speech-Language-Hearing Association  
 Association for Educational and Communications Technology  
 Commission on Accreditation of Physical Therapy Education  
 Commission on Collegiate Nursing Education  
 Council on Academic Accreditation of the American Speech-Language-Hearing Association  
 Council on Accreditation of Nurse Anesthesia Educational Programs  
 Council on Education of the Deaf  
 Council on Social Work Education  
 International Reading Association  
 Missouri Department of Elementary and Secondary Education  
 National Association of Schools of Music  
 National Association of Schools of Public Affairs and Administration  
 National Association of Schools of Theatre  
 National Council for Accreditation of Teacher Education

The University is a member of the American Association of State Colleges and Universities, the Council of Graduate Schools in the United States, American Association of Colleges for Teacher Education, and Midwestern Association of Graduate Schools.

**Accelerated Masters Programs**

The Accelerated Master's degree option provides a transition that enables outstanding undergraduate students to begin taking graduate course work in their junior or senior year and thus combine components of the undergraduate and graduate curriculum. Students must apply and be accepted to the accelerated master's program by the department and the Graduate College before enrolling for any courses to apply to the graduate degree.

The following accelerated masters programs are offered:

- Master of Accountancy
- Master of Business Administration
- Master of Natural and Applied Science
- Master of Public Administration
- Master of Science, Biology
- Master of Science, Cell and Molecular Biology
- Master of Science, Chemistry
- Master of Science, Geospatial Sciences in Geography and Geology
- Master of Science, Materials Science
- Master of Science, Mathematics
- Master of Science in Nursing

Students admitted into an approved Accelerated Masters Degree Program may have a limited number of 500-600 level courses counted toward both the undergraduate and graduate degree. Before enrolling in a course to be counted as both undergraduate and graduate credit (mixed credit), an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, department head of the undergraduate program, and the dean of the Graduate College. All approvals must be completed prior to the end of the Change of Schedule Period for the course(s). A

maximum of 12 credit hours may be taken as Mixed Credit, but many programs have lower limits. Under the Accelerated Master's degree option, a student will be fully admitted to the Graduate College upon completion of the requirement of the baccalaureate degree. Undergraduate students interested in the Accelerated Master's opportunity should contact their department or the Graduate College (417-836-5335) to determine admission requirements and procedures.

### University Graduate Certificate Programs

Certificate programs are designed for those who want to complete a recognized concentration of study in an area. The following graduate level certificate programs are offered:

- Conflict and Dispute Resolution (16 hrs)
- Instructional Technology Specialist (15 hrs)
- Internal Auditing (12 hrs)
- Post-Master's Family Nurse Practitioner (30 hrs)
- Post-Master's Nurse Educator (12 hrs)
- Project Management (12 hrs)
- Public Management (18 hrs)
- Sports Management (18 hrs)
- Technology Management (12 hrs)

Each certificate program is a focused combination of courses designed to significantly increase competency in the stated discipline area. Students completing these certificate programs will have that completion status reflected on their official transcript. Although certificates may be earned independent of a graduate degree program, the course work in some certificates can be utilized in conjunction with obtaining a master's degree, simultaneously or later. As noted in the titles, two of the currently offered certificate programs require a previously earned master's degree. Specific details on each program are listed in the Graduate Catalog.

### Admission to Graduate Study

A completed application for admission form and the \$30.00 application fee are required.

Graduate College admission requirements include:

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State **and** an overall grade point average of at least 2.75 on a 4.00 scale, or at least a 2.75 grade point average on a 4.00 scale for the last 60 hours of academic course work;

**OR**

2. a score of 475 or above on either the verbal or quantitative section of the Graduate Record Examination, and a score of not less than 400 on the other section.

Additional requirements and higher standards may be stipulated by departments for their programs.

Graduate catalogs are available upon request or visit our web site at <http://graduate.missouristate.edu>. For more information, please write or call:

Graduate College Phone: (417) 836-5335 or  
901 S. National Ave 1-(866)-767-4723  
Springfield, MO 65897

## Graduate Transfer Credit

On a case-by-case basis, graduate credit earned at other accredited institutions may be accepted. Acceptance of transfer credits on a graduate degree program occurs through recommendation of the student's major advisor and approval of the Graduate College. Transfer hours may count for up to 30% of the Program of Study. The policy on transfer credit also applies to students who are currently enrolled in, but have not completed, a graduate degree program at another institution and wish to transfer up to 30% of the total hours required for the Missouri State Program of Study. As with all credits applied toward a degree, transfer credits must have been earned within the eight-year time limit for a degree program and have been taken for graduate credit at a regionally credited university. Grades on transfer courses accepted in the degree program are included in the overall (combined Missouri State and transfer) graduate grade point average. The limitation on transfer credit may be superseded when the university develops a collaborative agreement with another institution for delivery of an academic program. In cases where Missouri State shares program responsibility with another institution, both institutions may teach courses that might be applied to an Missouri State degree program. For more information on a specific program, see the appropriate section of the Graduate Catalog.

## Graduate Program

While most of the graduate programs are associated with specific academic departments, the Master of Science in Administrative Studies is an interdisciplinary program that is administered by the Graduate College. The program offers four options—Applied Communication, Criminal Justice, Environmental Management, and Project Management. See the Graduate Catalog for details.

## Graduate Studies Courses

### GRD 697 Non Thesis Project. 3, F,S,Su.

Prerequisite: permission. In-depth study in an area relating to the core or option areas of the Master of Science in Administrative Studies, culminating in an extensive scholarly degree paper and presentation.

### GEN 698 Active in Research.

Students who have completed all course work and are only working on their research component may sign up for GEN 698 (titled Active in Research). This course is offered at a reduced fee (\$75) and allows the following:

- access to the library, including online service such as interlibrary loans, MOBIUS, and restricted access databases;
- opportunity to purchase a parking permit; and
- access to computer services and Missouri State email.

GEN 698 is a zero credit course and the grade is "P" (pass) or "N" (student discontinues participation in the course and is dropped from the course). A special permission form is required which includes approval by the student's advisor, department head, and the Graduate College.

## West Plains Campus

128 Garfield, West Plains, MO 65775; Phone (417) 255-7255; [www.wp.missouristate.edu](http://www.wp.missouristate.edu)

Chancellor: Kent D. Thomas



### Campus Profile

Missouri State University-West Plains is an autonomous two-year open admissions college within the Missouri State University System. Located 110 miles southeast of Springfield in the community of West Plains, Missouri State University-West Plains specializes in providing quality education to students of all ages in the south-central Ozarks region of Missouri. For over 40 years, the college has expanded to offer a liberal arts transfer curriculum at the freshman and sophomore levels, selected occupational and technical education programs, and a variety of continuing education courses. Enrollment is approximately 1,700 students per semester.

The campus consists of four classroom and administrative buildings, including Kellett Hall, Looney Hall, Melton Hall, and the Lybyer Technology Center. In addition to the classroom and administrative buildings, the campus includes the Garnett Library, a 60-person residence hall called the Grizzly House, the Putnam Student Center, Hass-Hoover Hall, and the V.H. Drago College Store. In 2000, the campus received two additional properties, Richards House, which is the permanent residence of the chancellor, and Gohn-Wood House, which will house the Missouri State University-Springfield Academic Outreach Office.

Missouri State University-West Plains also offers courses at Houston and Mountain Grove, Mo. The Associate of Arts degree in General Studies can be completed at the Mountain Grove Campus. The Mountain Grove program is housed in Shannon Hall, and the Houston program is housed in the Houston Higher Education Center.

Missouri State University-West Plains provides a two-year general education program that is integrated with the curriculum on the Missouri State University-Springfield campus for purposes of transfer and baccalaureate study. The campus also offers associate degrees designed to prepare students for employment.

Missouri State University offers a variety of undergraduate courses and graduate level courses on the West Plains Campus, including completion programs for Bachelor's degrees in General Business, Technology Management (BAS), and Elementary Education with certifications in Special Education and Middle School Education, as well as a Master's degree in Business Administration. Missouri State University courses are offered on-site in West Plains and through *BearNet*, Missouri State University's interactive television distance education network.

The small campus environment with quality undergraduate instruction in a relaxed, personal atmosphere has been the hallmark of Missouri State University-West Plains as the college continues to serve the post-secondary educational needs of area students.

Requests for further information should be directed to the Admissions Office, Missouri State University-West Plains, 128 Garfield, West Plains, MO 65775, Phone: (417) 255-7955.

Missouri State University-West Plains is accredited by the Higher Learning Commission and is a member of the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602. Phone: (312) 263-0456.

### Admission Requirements

The West Plains campus is an open admissions campus. All graduates of accredited high schools or GED recipients may be admitted as freshmen. More information on admissions requirements can be found in the Missouri State University-West Plains catalog.

### Degree Programs Offered

**Associate of Arts in General Studies**

**Associate of Science in Nursing**

**Associate of Applied Science in Business** (with emphases in Accounting, Computer Information, Management, and Technology Management)

**Associate of Applied Science in Child Development**

**Associate of Applied Science in Computer Graphics and Programming\***

**Associate of Applied Science in Computer Technology** (with emphases in Computer Applications and Computer Technical Support)

**Associate of Applied Science in Enology**

**Associate of Applied Science in Entrepreneurship**

**Associate of Applied Science in General Agriculture**

**Associate of Applied Science in General Technology**

**Associate of Applied Science in Industrial Technology** (with emphases in Mechanical Drafting and Technology Management)

**Associate of Applied Science in Law Enforcement**

**Associate of Applied Science in Respiratory Therapy**

**Associate of Applied Science in Viticulture**

*\*Pending approval of Coordinating Board of Higher Education*

### Continuing Education Opportunities

The Center for Business and Industry Training provides opportunities for customized training. Community oriented continuing education courses are offered as well as selected intersession, upper level, and graduate courses administered through the Springfield Campus.

## The Administration

Dr. Michael T. Nietzel, President  
 Dr. Don A. Aripoli, Vice President for Student Affairs  
 Dr. James P. Baker, Vice President for Research and Development  
 Mr. John F. Black, General Counsel  
 Mr. Gregory L. Burris, Vice President for Administrative and Information Services  
 Dr. Frank A. Einhellig, Acting Vice President for Academic Affairs  
 Mr. D. Kent Kay, Chief Financial Officer  
 Mr. Paul K. Kincaid, Chief of Staff/Assistant to the President for University Relations  
 Mr. John W. McAlear, Secretary to the Board of Governors  
 Mr. Gregory P. Onstot, Vice President for University Advancement  
 Dr. John T. Strong, Assistant to the President for Public Affairs  
 Mr. Kent D. Thomas, Chancellor of Missouri State University-West Plains Campus

### College of Arts and Letters

Dr. Gloria J. Galanes, Acting Dean  
 Dr. Carol Anne Costabile-Heming, Associate Dean

#### Department of Art and Design

Dr. Andrew L. Cohen, Head

#### School of Communication Studies

##### Department of Communication

Dr. Carey H. Adams, Head and Co-Director of School of Communication Studies

##### Department of Media, Journalism & Film Studies

Dr. Karen S. Buzzard, Head and Co-Director of School of Communication Studies

#### Department of English

Dr. W. D. Blackmon, Head

#### Department of Modern and Classical Languages

Dr. Madeleine Kernen, Head

#### Department of Music

Dr. Roger Stoner, Head

#### Department of Theatre and Dance

Mr. Wade S. Thompson, Acting Head

### College of Business Administration

Dr. Ronald R. Bottin, Dean  
 Dr. D. Michael Fields, Associate Dean

#### School of Accountancy

Dr. John R. Williams, Director

#### Department of Computer Information Systems

Dr. Jerry M. Chin, Head

#### Department of Finance and General Business

Dr. George S. Swales, Jr., Head

#### Department of Industrial Management

Dr. Shawn D. Strong, Head

#### Department of Management

Dr. Barry L. Wisdom, Head

#### Department of Marketing

Dr. Robert H. Luke, Head

### College of Education

Dr. David L. Hough, Dean and Head of Professional Education Unit  
 Dr. Christopher J. Craig, Associate Dean

#### Department of Counseling

Dr. Charles R. Barké, Head

#### Early Childhood and Family Development

Dr. Suzanne M. George, Head

#### Department of Educational Administration

Dr. William J. Agnew, Head

#### Department of Library Science

Ms. Karen L. Horny, Head and Dean of Library Services

#### School of Teacher Education

Dr. Fred H. Groves, Director

#### Greenwood Laboratory School

Janice Duncan, Acting Director

### College of Health and Human Services

Dr. Cynthia L. Pemberton, Dean  
 Dr. Helen C. Reid, Associate Dean

#### Department of Biomedical Sciences

Dr. Harold B. Falls, Jr., Head

#### Department of Communication Sciences and Disorders

Dr. Neil J. DiSarno, Head

#### Department of Health, Physical Education, and Recreation

Dr. Sarah G. McCallister, Acting Head

#### Department of Nursing

Dr. Kathryn L. Hope, Head

#### Department of Physical Therapy

Dr. Loretta M. Knutson, Acting Head

#### Department of Physician Assistant Studies

Dr. Steven T. Dodge, Head

#### Department of Psychology

Dr. Frederick R. Maxwell, Jr., Head

#### School of Social Work

Dr. Lola M. Butler, Director

#### Department of Sports Medicine and Athletic Training

Mr. Gary L. Ward, Acting Head

### College of Humanities and Public Affairs

Dr. Lorene H. Stone, Dean  
 Dr. Victor H. Matthews, Associate Dean

#### Department of Defense and Strategic Studies

Dr. Keith B. Payne, Head

#### Department of Economics

Dr. Mahua Barari, Acting Head

#### Department of History

Dr. Michael M. Sheng, Head

#### Department of Military Science

LTC Brendan McKiernan, Head

#### Department of Philosophy

Dr. Pamela R. Sailors, Head

#### Department of Political Science

Dr. Beat R. Kernen, Head

#### Department of Religious Studies

Dr. James C. Moyer, Head

#### Department of Sociology, Anthropology and Criminology

Dr. Karl R. Kunkel, Head

## **College of Natural and Applied Sciences**

Dr. Lawrence E. Banks, Dean  
Dr. William H. Cheek, Associate Dean  
Dr. Innocent Onwueme, Associate Dean for Agricultural Sciences

### **School of Agricultural Sciences**

Dr. Innocent Onwueme, Associate Dean

#### **Department of Agriculture**

Dr. W. Anson Elliott, Head

#### **Department of Applied Consumer Sciences**

Dr. Michele M. Granger, Head

#### **Department of Fruit Science**

Dr. Innocent Onwueme, Head

#### **Department of Biology**

Dr. S. Alicia Mathis, Head

#### **Department of Chemistry**

Dr. Tamera S. Jahnke, Head

#### **Department of Computer Science**

Dr. Lloyd A. Smith, Head

#### **Department of Geography, Geology, and Planning**

Dr. Thomas G. Plymate, Head

#### **Department of Mathematics**

Dr. Yungchen Cheng, Head

#### **Department of Physics, Astronomy and Materials Science**

Dr. Pawan K. Kahol, Head

## **College of Continuing Education and The Extended University**

Dr. J. Ronald Fairbairn, Dean

## **Graduate College**

Dr. Frank A. Einhellig, Dean  
Dr. Barbara A. Bushman, Associate Dean

## **University College**

Dr. Curtis P. Lawrence, Dean  
Dr. John C. Catau, Associate Dean Library Services  
Ms. Karen L. Horny, Dean  
Mrs. Neosha A. Mackey, Associate Dean

## **Mountain Grove Campus**

Dr. James P. Baker, Chancellor

## **West Plains Campus**

Kent D. Thomas, Chancellor

## Faculty and Staff Recognition Award Recipients

### Recipients of Missouri State University Foundation Excellence in Teaching Award:

Dr. Alice F. Barteel, Political Science (1983/84)  
 Dr. James R. Layton, Reading (1983/84)  
 Dr. Rhonda R. Ridinger, Health and Physical Education (1983/84)  
 Mr. John D. Schatz, Agriculture (1983/84)  
 Dr. M. Michael Awad, Mathematics (1984/85)  
 Dr. R. Thomas Fullerton, Foreign Languages (1984/85)  
 Dr. Duane G. Meyer, History (1984/85)  
 Dr. Clifford I. Whipple, Psychology (1984/85)  
 Dr. R. G. Amonker, Sociology (1985/86)  
 Dr. Genevieve R. Cramer, Reading (1985/86)  
 Dr. Max H. McCullough, Educational Administration (1985/86)  
 Dr. Martha F. Wilkerson, Sociology (1985/86)  
 Dr. Steven L. Jensen, Biology (1986/87)  
 Dr. Robert E. Thurman, Physics (1986/87)  
 Dr. Nancy Walker, English (1986/87)  
 Dr. E. Dale Wasson, Economics (1986/87)  
 Mr. Jim A. Escalante, Design (1987/88)  
 Dr. John W. Northrip, Astronomy (1987/88)  
 Mr. Howard R. Orms, Theatre (1987/88)  
 Dr. Peggy S. Pearl, Child and Family Development (1987/88)  
 Dr. Jack C. Knight, Philosophy (1988/89)  
 Dr. Burton L. Purrington, Anthropology (1988/89)  
 Mr. Dennis H. Rexroad, Art and Design (1988/89)  
 Dr. Charles E. Stufflebeam, Agriculture (1988/89)  
 Dr. Betty L. Bitner, Secondary Education (1989/90)  
 Dr. David A. Daly, Communications (1989/90)  
 Dr. Lyndon N. Irwin, Agriculture (1989/90)  
 Dr. Vera B. Stanojevic, Mathematics (1989/90)  
 Dr. Michael L. Bell, Secondary Education (1990/91)  
 Dr. Joseph J. Hughes, Foreign Languages (1990/91)  
 Dr. Nancy K. Keith, Computer Information Systems (1990/91)  
 Dr. Vernon J. Thielmann, Chemistry (1990/91)  
 Dr. N. June Brown, Reading (1991/92)  
 Ms. Joanne M. Gordon, Nursing (1991/92)  
 Dr. David J. Lutz, Psychology (1991/92)  
 Dr. James F. O'Brien, Chemistry (1991/92)  
 Dr. Wayne L. Anderson, Business Law (1992/93)  
 Dr. Gloria J. Galanes, Communications (1992/93)  
 Dr. Russell G. Rhodes, Biology (1992/93)  
 Dr. Woodrow Sun, Mathematics (1992/93)  
 Dr. John S. Bourhis, Communications (1993/94)  
 Dr. Mary K. Coulter, Management (1993/94)  
 Dr. Peter Richardson, Management (1993/94)  
 Dr. Leonila P. Rivera, Special Education (1993/94)  
 Dr. Kurt E. Chaloupecky, Accounting (1994/95)  
 Dr. Donald H. McInnis, Atmospheric Science (1994/95)  
 Dr. Richard L. Myers, Biology (1994/95)  
 Dr. Belva W. Prather, Music (1994/95)  
 Dr. W. D. Blackmon, English (1995/96)  
 Dr. Chris Bersted, Psychology (1995/96)  
 Ms. Sharon Ellis, Theatre and Dance (1995/96)  
 Dr. Shahin Gerami, Sociology and Anthropology (1995/96)

### Recipients of Missouri State University Foundation Excellence in Research Award:

Dr. James N. Giglio, History (1986/87)  
 Dr. Harry L. Hom, Jr., Psychology (1986/87)  
 Dr. Juris Zarins, Anthropology (1986/87)  
 Dr. Russel L. Gerlach, Geography (1987/88)  
 Dr. Charles W. Hedrick, Religious Studies (1987/88)  
 Mr. Wade S. Thompson, Art (1987/88)  
 Dr. James T. Jones, English (1988/89)  
 Dr. Victor H. Matthews, Religious Studies (1988/89)  
 Dr. Carol J. Miller, Business Law (1988/89)  
 Dr. Katherine G. Lederer, English (1989/90)  
 Dr. George J. Selement, History (1989/90)  
 Dr. William A. Wedenoja, Anthropology (1989/90)  
 Dr. Shouchuan Hu, Mathematics (1990/91)  
 Dr. Arden T. Miller, Psychology (1990/91)  
 Dr. Ronald L. Coulter, Marketing (1990/91)  
 Dr. Allen J. Edwards, Psychology (1991/92)  
 Dr. Worth Robert Miller, History (1991/92)  
 Mr. Bill B. Senter, Art (1991/92)  
 Dr. William J. Burling, English (1992/93)  
 Dr. Michael J. Cerullo, Accounting (1992/93)  
 Dr. David J. Hartmann, Sociology (1992/93)

Mr. Dwaine L. Crigger, Art (1993/94)  
 Dr. Ryan E. Giedd, Physics (1993/94)  
 Dr. James F. O'Brien, Chemistry (1993/94)  
 Dr. Martha F. Wilkerson, Sociology (1993/94)  
 Dr. David W. Gutzke, History (1994/95)  
 Dr. Shouchuan Hu, Mathematics (1994/95)  
 Dr. Karl W. Luckert, Religious Studies (1994/95)  
 Dr. John Havel, Biology (1995/96)  
 Dr. Kishor Shah, Mathematics (1995/96)  
 Dr. Logan Skelton, Music (1995/96)  
 Dr. Xingping Sun, Mathematics (1995/96)

### Recipients of Burlington Northern Foundation Faculty Achievement Award for Outstanding Scholarship:

Dr. Dominic J. Capeci, Jr., History (1984/85)  
 Dr. Bertrand P. Helm, Philosophy (1985/86)  
 Dr. Paul L. Redfeard, Jr., Biology (1986/87)  
 Dr. Karl W. Luckert, Religious Studies (1987/88)  
 Dr. J. Ramsey Michaels, Religious Studies (1988/89)  
 Dr. Mark E. Rushefsky, Political Science (1989/90)

### Recipients of Burlington Northern Foundation Faculty Achievement Award for Teaching Excellence:

Dr. James C. Moyer, Religious Studies (1984/85)  
 Dr. Mona J. Casady, Administrative Office Systems (1985/86)  
 Dr. L. Dale Allee, Secondary Education (1986/87)  
 Dr. V. Andree Bayliss, Reading (1987/88)  
 Dr. Stanley M. Burgess, Religious Studies (1988/89)  
 Dr. L. Dennis Humphrey, Biomedical Sciences (1989/90)  
 Dr. Roar L. Irgens, Biology (1990/91)  
 Dr. Donal J. Stanton, Communications (1991/92)  
 Ms. Dorothy F. Padron, Elementary Education (1992/93)

### Recipients of Missouri State University Foundation Excellence in Community Service Awards:

**Faculty**  
 Dr. Doris W. Ewing, Sociology (1994/95)  
 Dr. Peggy S. Pearl, Consumer and Family Studies (1994/95)  
 Dr. Ruth V. Burgess, Curriculum and Instruction (1995/96)  
 Dr. Lloyd R. Young, Sociology (1995/96)  
 Mr. Edward J. DeLong, Library Science (1996/97)  
 Dr. Richard L. Nichols, School of Accountancy (1996/97)  
 Dr. Lyndon N. Irwin, Agriculture (1997/98)  
 Ms. Janice Reynolds, Greenwood Laboratory School (1997/98)  
 Dr. Katherine G. Lederer, English (1998/99)  
 Dr. Pauline Nugent, Modern and Classical Languages (1998/99)  
 Dr. Janice Schnake Greene, Biology (1999/2000)  
 Dr. Paula A. Kemp, Mathematics (1999/2000)  
 Dr. Dalen M. Duitsman, Health, Physical Education and Recreation (2000/01)  
 Dr. Bruton L. Purrington, Sociology and Anthropology (2000/01)  
 Dr. Judith A. John, English (2001/02)  
 Dr. Amy F. Muchnick, Music (2001/02)  
 Dr. Rhonda Ridinger, Health, Physical Education and Recreation (2002/03)  
 Dr. Shawn D. Strong, Industrial Management (2002/03)

**Staff**  
 Mr. Mike J. Jungers, Student Life and Development (1994/95)  
 Ms. Patsy D. Corbett, Center for Archeological Research (1994/95)  
 Ms. Charlotte C. Hardin, Minority Student Services (1995/96)  
 Ms. Linda A. Lock, Music (1995/96)  
 Ms. Tina C. Stillwell, News Services (1996/97)  
 Dr. Ann M. Orzek, Counseling and Testing (1996/97)  
 Ms. Deborah A. Gallion, Juanita K. Hammons Hall for the Performing Arts (1997/98)  
 Dr. Frederick D. Muegge, Taylor Health and Wellness Center (1997/98)  
 Ms. Barbara L. Helvey, Citizenship and Service Learning (1998/99)  
 Dr. Cecil A. Poe, Printing Services (1998/99)  
 Mr. Mark A. Johnson, Residence Life and Services (1999/2000)  
 Ms. Polly B. Laurie, Communication Sciences and Disorders (1999/2000)  
 Ms. Carol B. Silvey, West Plains Development (2000/01)  
 Ms. Dana D. Carroll, University College (2000/01)  
 Mr. Clinton D. Copeland, Career Services (2001/02)  
 Mrs. Jean Ann Percy, College of Business Administration (2001/02)  
 Ms. SuzAnn A. Ferguson, Career Services (2002/03)  
 Ms. Catherine Hawkins, School of Social Work (2002/03)  
 Mrs. Cynthia M. Fiedler, Academic Advisement Center (2003/04)  
 Dr. Jay D. Martin, West Plains Institutional Research (2003/04)  
 Ms. Stephanie Grevillius, Student Judicial Programs (2004-2005)  
 Ms. Jean Ann Thomas, History Department (2005-2005)

**Recipients of Missouri State University Foundation Faculty****Achievement Award for Outstanding Scholarship:**

- Dr. W. Patrick Sullivan, Social Work (1990/91)
- Dr. James S. Baumlin, English (1991/92)
- Dr. Victor H. Matthews, Religious Studies (1992/93)
- Dr. Paula A. Kemp, Mathematics (1993/94)
- Dr. Peggy S. Pearl, Consumer and Family Studies (1994/95)
- Dr. Phyllis Bixler, English (1995/96)

**Recipients of Missouri State University Foundation Faculty****Achievement Award for Teaching Excellence:**

- Dr. Carter M. Cramer, Secondary Education (1993/94)
- Dr. Olen L. Greer, Accounting (1994/95)
- Ms. Irene Francka, Computer Information Systems (1995/96)

**Distinguished Scholars:**

- Dr. Dominic J. Capeci, Jr., History (1987/88–1991/92)
- Dr. Russel L. Gerlach, Geography (1988/89–1992/93)
- Dr. James N. Giglio, History (1988/89–1992/93)
- Dr. James F. Miller, Geology (1988/89–1992/93)
- Dr. Harold B. Falls, Jr., Biomedical Sciences (1989/90–1993/94)
- Dr. Bertrand P. Helm, Philosophy (1989/90–1993/94)
- Dr. Charles W. Hedrick, Religious Studies (1991/92–1995/96)
- Dr. James F. O'Brien, Chemistry (1991/92–1995/96)
- Dr. Dominic J. Capeci, Jr., History (1992/93–1996/97)
- Mr. Wade S. Thompson, Art (1992/93–1996/97)
- Dr. James N. Giglio, History (1993/94–1997/98)
- Dr. D. Keith Denton, Management (1994/95–1998/99)
- Dr. James F. Miller, Geology (1994/95–1998/99)
- Dr. Charles W. Hedrick, Religious Studies (1996/97–2000/01)
- Dr. James F. O'Brien, Chemistry (1996/97–2000/01)
- Mr. Mark M. Biggs, Media Journalism and Film (2001/02–2005/06)

**Recipients of Missouri State University Foundation Award:****Teaching**

- Dr. Pauline Nugent (1996/97)
- Dr. Kishor Shah (1996/97)
- Dr. Carol J. Miller, Finance and General Business (1997/98)
- Dr. Anthony D. Simones, Political Science (1997/98)
- Dr. James S. Baumlin, English (1998/99)
- Dr. Cedomir Kostovic, Art and Design (1998/99)
- Dr. Richard L. Myers, Biology (1999/2000)
- Ms. Vonda K. Yarberr, Art and Design (1999/2000)
- Dr. James F. O'Brien, Chemistry (2000/01)
- Dr. Joseph J. Hughes, Modern and Classical Languages (2000/01)
- Mr. Mark M. Biggs, Media Journalism and Film (2001/02)
- Mr. Roman Z. Duszek, Art and Design (2001/02)
- Dr. Kandiah Manivannan, Physics, Astronomy and Materials Science (2002/03)
- Dr. Mark M. Richter, Chemistry (2002/03)
- Dr. Michael K. Carlie, Sociology, Anthropology and Criminology (2003/04)
- Dr. David J. Lutz, Psychology (2003/04)

**Research**

- Dr. John T. Pardeck (1996/97)
- Mr. Zhi Lin (1996/97)
- Dr. Dean A. Cuebas, Chemistry (1997/98)
- Dr. S. Alicia Mathis, Biology (1997/98)
- Dr. Michael D. Burns, English (1998/99)
- Dr. Wenxiong Chen, Mathematics (1998/99)
- Dr. Don L. Moll, Biology (1999/2000)
- Dr. Lynn W. Robbins, Biology (1999/2000)
- Dr. Robert A. Mayanovic, Physics, Astronomy and Materials Science (2000/01)
- Mr. Cedomir Kostovic, Art and Design (2000/01)
- Dr. Dennis V. Hickey, Political Science (2001/02)
- Dr. Mark M. Richter, Chemistry (2001/02)
- Dr. Carol Anne Costabile-Heming, Modern and Classical Languages (2002/03)
- Dr. Andrew W. Lewis, History (2002/03)
- Dr. Shahin Gerami, Sociology, Anthropology and Criminology (2003/04)
- Dr. David W. Gutzke, History (2003/04)

**Recipients of Missouri State University University Award:****Teaching**

- Dr. Tita French Baumlin (1996/97)
- Dr. Christina Biava (1996/97)
- Dr. Charles W. Boyd (1996/97)
- Dr. C. Edward Chang (1996/97)
- Dr. Jean M. Delaney (1996/97)
- Dr. Jane E. Doelling (1996/97)
- Dr. Erwin J. Mantei (1996/97)
- Ms. Phyllis R. Shoemaker (1996/97)
- Dr. Carol F. Shoptaugh (1996/97)
- Dr. William E. Thomas (1996/97)
- Dr. Pearl M. Yeadon-Erny (1996/97)

- Dr. Yongwei Zhang (1996/97)
- Dr. Carey H. Adams, Communication and Mass Media (1997/98)
- Dr. Larry N. Campbell, Mathematics (1997/98)
- Dr. Joel D. Chaston, English (1997/98)
- Dr. Randy K. Dillon, Communication and Mass Media (1997/98)
- Dr. Janice S. Greene, Biology (1997/98)
- Dr. Lyndon N. Irwin, Agriculture (1997/98)
- Dr. Harry R. James, Agriculture (1997/98)
- Dr. Janis L. King, Communication and Mass Media (1997/98)
- Dr. Karl R. Kunkel, Sociology and Anthropology (1997/98)
- Dr. George Mathew, Mathematics (1997/98)
- Ms. Evelyn S. Maxwell, Greenwood Laboratory School (1997/98)
- Dr. Jan R. Squires, Finance and General Business (1997/98)
- Dr. Linda G. Benson, English (1998/99)
- Dr. Genevieve R. Cramer, Reading, Special Education, and Instructional Technology (1998/99)
- Dr. John B. Harms, Sociology and Anthropology (1998/99)
- Dr. Donald R. Holliday, English (1998/99)
- Dr. Kathryn L. Hope, Nursing (1998/99)
- Dr. Beth Hurst, Reading, Special Education, and Instructional Technology (1998/99)
- Dr. Katherine G. Lederer, English (1998/99)
- Dr. David J. Lutz, Psychology (1998/99)
- Dr. S. Alicia Mathis, Biology (1998/99)
- Dr. Norma D. McClellan, Music (1998/99)
- Dr. Heidi Perreault, Computer Information Systems (1998/99)
- Dr. Woodrow Sun, Mathematics (1998/99)
- Dr. Wayne L. Anderson, Finance and General Business (1999/2000)
- Dr. Isabelle Bauman, Communication and Mass Media (1999/2000)
- Dr. Phyllis Bixler, English (1999/2000)
- Dr. W.D. Blackmon, English (1999/2000)
- Dr. Margaret L. Buckner, Sociology and Anthropology (1999/2000)
- Mr. Michael D. Burns, English (1999/2000)
- Dr. John S. Heywood, Biology (1999/2000)
- Dr. James B. Hutter, Agriculture (1999/2000)
- Dr. Nancy K. Keith, Marketing (1999/2000)
- Dr. Roseanne G. Killion, Mathematics (1999/2000)
- Dr. David B. Meinert, Computer Information Systems (1999/2000)
- Dr. Cynthia K. Wilson, School of Teacher Education (1999/2000)
- Dr. William J. Burling, English (2000/01)
- Dr. J. Clark Closser, English (2000/01)
- Mr. Dwaine L. Crigger, Art and Design (2000/01)
- Dr. Samuel C. Dyer, Jr., Communication and Mass Media (2000/01)
- Dr. Lyndon N. Irwin, Agriculture (2000/01)
- Dr. George H. Jensen, English (2000/01)
- Dr. Marianne Karanikas, English (2000/01)
- Dr. John L. Kent, Marketing (2000/01)
- Ms. Maria Michalczyk-Lillich, Art and Design (2000/01)
- Dr. D. Wayne Mitchell, Psychology (2000/01)
- Dr. Sarah B. Nixon, School of Teacher Education (2000/01)
- Dr. Margaret E. Weaver, English (2000/01)
- Dr. Michael E. Ellis, English, (2001/02)
- Ms. Candace D. Fisk, Greenwood Laboratory School (2001/02)
- Dr. Erwin J. Mantei, Geography, Geology and Planning (2001/02)
- Dr. George Mathew, Mathematics (2001/02)
- Dr. S. Alicia Mathis, Biology (2001/02)
- Dr. James C. Moyer, Religious Studies (2001/02)
- Dr. Mark A. Paxton, Media, Journalism and Film (2001/02)
- Dr. Peter Richardson, Management (2001/02)
- Dr. Elizabeth J. Rozell, Management (2001/02)
- Dr. Eric D. Shade, Computer Science (2001/02)
- Dr. Thomas L. Wyrick, Economics (2001/02)
- Dr. Pearl M. Yeadon-Erny, Music (2001/02)
- Dr. Roberta J. Aram, School of Teaching Education (2002/03)
- Dr. Mark D. Given, Religious Studies (2002/03)
- Dr. E. Michael Hendrix, Biomedical Sciences (2002/03)
- Dr. Judith A. John, English (2002/03)
- Dr. Jodi Kanter, Theatre and Dance (2002/03)
- Dr. Jack C. Knight, Philosophy (2002/03)
- Dr. Karl R. Kunkel, Sociology and Anthropology (2002/03)
- Dr. Kent P. Ragan, Finance and General Business (2002/03)
- Dr. Frank Ragozzine, Psychology (2002/03)
- Dr. Philip C. Rothschild, Management (2002/03)
- Dr. Dianne C. Strickland, Art and Design (2002/03)
- Ms. Vonda K. Yarberr, Art and Design (2002/03)
- Dr. Timothy A. Bender, Psychology (2003/04)
- Dr. Stephen C. Berkwitz, Religious Studies (2003/04)
- Dr. Eric Bosch, Chemistry (2003/04)
- Dr. Edwin M. Carawan, Modern and Classical Languages (2003/04)

Dr. Peter F. Collins, Music (2003/04)  
 Dr. Kartik C. Ghosh, Physics, Astronomy, and Materials Science (2003/04)  
 Dr. Beth A. Hurst, Teacher Education (2003/04)  
 Dr. Timothy D. Knapp, Sociology, Anthropology and Criminology (2003/04)  
 Ms. Rhythm L. McCarthy, Theatre and Dance (2003/04)  
 Dr. Belva W. Prather, Music (2003/04)  
 Dr. Kishor Shah, Mathematics (2003/04)  
 Ms. Barrie L. Talbott, English (2003/04)

**Research**

Dr. M. Christopher Barnhart (1996/97)  
 Mr. Mark M. Biggs (1996/97)  
 Dr. Dominic J. Capeci (1996/97)  
 Dr. Joel D. Chaston (1996/97)  
 Dr. James O. Davis (1996/97)  
 Dr. Dennis V. Hickey (1996/97)  
 Dr. Corinne M. Karuppan (1996/97)  
 Dr. Jiang-Kai Zuo (1996/97)  
 Dr. David J. Dixon, Psychology (1997/98)  
 Dr. James N. Giglio, History (1997/98)  
 Dr. Charles W. Hedrick, Religious Studies (1997/98)  
 Dr. Victor H. Matthews, Religious Studies (1997/98)  
 Ms. Sarah E. Perkins, Art and Design (1997/98)  
 Dr. Mark E. Rushefsky, Political Science (1997/98)  
 Mr. Wade S. Thompson, Art and Design (1997/98)  
 Dr. Bobby C. Vaught, Management (1997/98)  
 Dr. M. Christopher Barnhart, Biology (1998/99)  
 Dr. Thomas V. Dickson, Communication and Mass Media (1998/99)  
 Dr. LiYing Li, Sociology and Anthropology (1998/99)  
 Dr. Julie J. Masterson, Communication Sciences and Disorders (1998/99)  
 Dr. Kevin L. Mickus, Geography, Geology and Planning (1998/99)  
 Dr. Carol J. Miller, Finance and General Business (1998/99)  
 Dr. Linda Park-Fuller, Theatre and Dance (1998/99)  
 Dr. Liang-Cheng Zhang, Mathematics (1998/99)  
 Mr. Mark M. Biggs, Communication and Mass Media (1999/2000)  
 Dr. Charles W. Hedrick, Religious Studies (1999/2000)  
 Dr. George H. Jensen, English (1999/2000)  
 Dr. James T. Jones, English (1999/2000)  
 Dr. Paula A. Kemp, Mathematics (1999/2000)  
 Dr. William Garrett Piston, History (1999/2000)  
 Dr. Dennis L. Schmitt, Agriculture (1999/2000)  
 Dr. Michael M. Sheng, History (1999/2000)  
 Dr. Wayne C. Barte, History (2000/01)  
 Dr. Mark C. Ellickson, Political Science (2000/01)  
 Dr. James N. Giglio, History (2000/01)  
 Dr. Dimitri Ioannides, Geography, Geology and Planning (2000/01)  
 Dr. Chung S. Kim, Computer Information Systems (2000/01)  
 Dr. Kant B. Patel, Political Science (2000/01)  
 Dr. Robert T. Pavlowsky, Geography, Geology and Planning (2000/01)  
 Dr. Charles E. Pettijohn, Marketing (2000/01)  
 Dr. James S. Baumlin, English (2001/02)  
 Dr. William J. Burling, English (2001/02)  
 Dr. Joel D. Chaston, English (2001/02)  
 Ms. Sharon R. Harper, Art and Design (2001/02)  
 Dr. John E. Havel, Biology (2001/02)  
 Dr. Paula A. Kemp, Mathematics (2001/02)  
 Dr. John E. Llewellyn, Religious Studies (2001/02)  
 Dr. Randall S. Sexton, Computer Information Systems (2001/02)  
 Dr. Daniel W. Beckman, Biology (2002/03)  
 Dr. Eric Bosch, Chemistry (2002/03)  
 Dr. Sarah G. McCallister, Health, Physical Education, and Recreation (2002/03)  
 Dr. Worth R. Miller, History (2002/03)  
 Dr. James Parson, Music (2002/03)  
 Dr. Kant B. Patel, Political Science (2002/03)  
 Ms. Sarah E. Perkins, Art and Design (2002/03)  
 Dr. Cynthia K. Wilson, School of Teacher Education (2002/03)  
 Dr. Paul L. Durham, Biology (2003/04)  
 Mr. Cedomir Kostovic, Art and Design (2003/04)  
 Dr. Kevin L. Mickus, Geography, Geology, and Planning (2003/04)  
 Dr. Arbindra P. Rimal, Agriculture (2003/04)  
 Dr. Dennis L. Schmitt, Agriculture (2003/04)  
 Dr. Xingping Sun, Mathematics (2003/04)  
 Dr. Pearl M. Yeadon-Erny, Music (2003/04)  
 Dr. Juris Zarins, Sociology, Anthropology and Criminology (2003/04)

**Service**

Dr. Genevieve R. Cramer (1996/97)  
 Dr. David J. Dixon (1996/97)  
 Dr. Bradley J. Fisher (1996/97)

Dr. John W. Northrip (1996/97)  
 Dr. Paula A. Kemp, Mathematics (1997/98)  
 Dr. Katherine G. Lederer, English (1997/98)  
 Dr. John T. Pardeck, Social Work (1997/98)  
 Dr. Rhonda R. Ridinger, Health, Physical Education and Recreation (1997/98)  
 Dr. Judith A. John, English (1998/99)  
 Dr. Lynda M. Plymate, Mathematics (1998/99)  
 Dr. Lois M. Shufeldt, Marketing (1998/99)  
 Dr. Ralph R. Smith, Communication and Mass Media (1998/99)  
 Dr. Genevieve R. Cramer, School of Teacher Education (1999/2000)  
 Dr. Janice Schnake Greene, Biology (1999/2000)  
 Dr. Mary Ann Jennings, School of Social Work (1999/2000)  
 Ms. Virginia Fay Mee, Management Development Institute (1999/2000)  
 Dr. R. Bruce Johnson, Agriculture (2000/01)  
 Dr. Paula A. Kemp, Mathematics (2000/01)  
 Mr. Gary L. Ward, Sports Medicine and Athletic Training (2000/01)  
 Ms. Vonda K. Yarberry, Art and Design (2000/01)  
 Dr. Lyndon N. Irwin, Agriculture (2001/02)  
 Dr. David M. Quick, Art and Design (2001/02)  
 Dr. Kristene S. Sutliff, English (2001/02)  
 Dr. Vernon J. Thielmann, Chemistry (2001/02)  
 Dr. Suzanne M. George, School of Teacher Education (2002/03)  
 Dr. Joel D. Chaston, English (2002/03)  
 Dr. Norma D. McClellan, Music (2002/03)  
 Dr. Mark E. Rushefsky, Political Science (2002/03)  
 Mr. Mark M. Biggs, Media, Journalism, & Film (2003/04)  
 Dr. James N. Giglio, History (2003/04)  
 Dr. Thomas E. Tomasi, Biology (2003/04)  
 Dr. Thomas L. Wyrick, Economics (2003/04)

**Distinguished Professor:**

Dr. Dominic J. Capeci, History  
 Dr. James N. Giglio, History  
 Dr. Charles W. Hedrick, Religious Studies  
 Dr. James F. O'Brien, Chemistry  
 Dr. Paula A. Kemp, Mathematics  
 Dr. Joel D. Chaston, English

**University Fellow:****Teaching**

Dr. Jan R. Squires, Finance and General Business (1999–2002)  
 Dr. Heidi R. Perreault, Computer Information Systems (2000–2003)  
 Dr. Phyllis Bixler, English (2001–2004)  
 Dr. Nancy K. Keith, Marketing (2001–2004)  
 Dr. Larry N. Campbell, Mathematics (2002–2005)  
 Dr. Heidi R. Perreault, Computer Information Systems (2003–2006)  
 Mr. Mark M. Biggs, Media, Journalism and Film (2004–2007)  
 Ms. Vonda Yarberry, Art and Design (2004–2007)

**Research**

Dr. James N. Giglio, History (1999–2002)  
 Dr. Dennis V. Hickey, Political Science (1999–2002)  
 Dr. Victor H. Matthews, Religious Studies (1999–2002)  
 Dr. M. Christopher Barnhart, Biology (2000–2003)  
 Dr. Carol J. Miller, Finance and General Business (2000–2003)  
 Dr. John T. Pardeck, Social Work (2001–2004)  
 Dr. Dennis V. Hickey, Political Science (2002–2005)  
 Dr. Robert T. Pavlowsky, Geography, Geology and Planning (2002–2005)  
 Dr. Dominic J. Capeci, History (2003–2006)  
 Dr. Carol Anne Costabile-Heming, Modern and Classical Languages (2003–2006)  
 Dr. James Parsons, Music (2004–2007)  
 Dr. Mark M. Richter, Chemistry (2004–2007)

**Service**

Dr. Rhonda R. Ridinger, Health, Physical Education and Recreation (1999–2002)  
 Dr. Lois M. Shufeldt, Marketing (2000–2003)  
 Dr. Paula A. Kemp, Mathematics (2001–2004)  
 Dr. Peggy S. Pearl, Consumer and Family Studies (2001–2004)  
 Dr. Lyndon N. Irwin, Agriculture (2002–2005)  
 Dr. Rhonda R. Ridinger, Health, Physical Education and Recreation (2002–2005)

**Recipients of Missouri State University Staff Excellence in University Service:**

Dr. Earle F. Doman, Dean of Students Office (2004-05)  
 Ms. Sara M. Clark, Information Technology (2004-05)  
 Ms. Diana K. Garland, Academic Outreach (2004-05)  
 Ms. Edie M. Sartin, Academic Outreach (2004-05)  
 Ms. Debra M. Donnellan, Administrative and Information Services (2004-05)  
 Ms. Marty Marty, Student Success (2004-05)



## Emeritus Faculty

(Entries in this section were current as of April 18, 2005)

**David B. Adams** (1966-2002) Emeritus Professor of History. B.A., Southwest Missouri State University (1959); Ph.D., University of Texas (1971).

**Jay H. Adams** (1969-1995) Emeritus Professor of Art and Design. B.F.A., Illinois Wesleyan University (1962); M.S., Illinois State University (1968).

**Meredith L. Adams** (1972-2003) Emeritus Professor of History. B.A., University of North Carolina (1959); Ph.D., University of Texas (1971).

**John E. Adamson** (1975-2002) Emeritus Professor of Finance and General Business. B.S., United States Military Academy-West Point (1967); M.A., Georgetown University (1971); M.B.A., University of Virginia (1975); J.D., University of Virginia (1975).

**Lonnie Dale Allee** (1965-1997) Emeritus Professor of Secondary Education, Foundations, and Educational Technology. B.S. in Ed., Southwest Missouri State University (1960); M.Ed., University of Missouri (1964); Ph.D., George Peabody College for Teachers (1971).

**Herbert J. Arkebauer** (1978-1996) Emeritus Professor of Communication Sciences and Disorders. B.S., Concordia Teachers College (1951); M.S., Columbia University (1953); Ph.D., University of Iowa (1964).

**Bill H. Armstrong** (1963-1988) Emeritus Professor of Art and Design. B.F.A., Bradley University (1949); M.F.A., University of Illinois (1955).

**W. Gayle Ashley** (1970-2000) Emeritus Professor of Agriculture. B.S., Southwest Missouri State University (1964); M.S., Louisiana Tech University (1970).

**Larry R. Atwood** (1968-2000) Emeritus Professor of Health, Physical Education, and Recreation. B.S. in Ed., Southwest Missouri State University (1960); M.Ed., Drury College (1964).

**Wesley D. Bair** (1968-2002) Emeritus Professor of Health, Physical Education, and Recreation. B.S. in Ed., Illinois State University (1955); M.S. in Ed., Illinois State University (1960); Ed.D., University of Arkansas (1969).

**Charles R. Baird** (1962-1988) Emeritus Professor at Greenwood Laboratory School. B.S. in Ed., Southwest Missouri State University (1955); M.A., University of Arkansas (1960).

**Lonnie Barker, Jr.** (1972-1998) Emeritus Professor of Educational Administration. A.B., Morehead State University (1954); M.A., Morehead State University (1960); Ph.D., Miami University-Ohio (1972).

**M. Pauline Barker** (1972-1996) Emeritus Professor at Greenwood Laboratory School. A.B., Morehead State University (1964); M.Ed., Miami University-Ohio (1971).

**Robert B. Beach** (1962-1998) Emeritus Professor of Technology. B.S., Murray State University (1955); M.A., Murray State University (1959); Ed.D., University of Missouri (1967).

**Robert D. Beckett** (1963-1997) Emeritus Professor of English. B.A., University of Michigan (1957); M.A., University of Michigan (1961); Ph.D., University of Colorado (1967).

**Edna L. Bell** (1985-1998) Emeritus Professor of Consumer and Family Studies. B.S., Northwest Missouri State University (1966); M.A., Kansas State University (1971); Ph.D., Iowa State University of Science and Technology (1980).

**Michael L. Bell** (1975-2000) Emeritus Professor of Secondary Education, Foundations, and Educational Research. B.S. in Ed., Northeastern Oklahoma State University (1963); M.Ed., University of Arkansas (1967); Ed.D., University of Arkansas (1972).

**Gary O. Bennett** (1976-2002) Emeritus Professor of Industrial Management. B.S., Murray State University (1971); M.S., Murray State University (1972).

**Jerry D. Berlin** (1987-1997) Emeritus Professor of Biology. B.S. in Ed., University of Missouri-Columbia (1960); A.M., University of Missouri-Columbia (1961); Ph.D., Iowa State University (1964).

**Robert J. Berndt** (1970-1989) Emeritus Professor of Foreign Languages. B.A., Kent State University (1950); M.A., Ohio State University (1951); Ph.D., Case Western Reserve University (1956).

**Chris T. Bersted** (1970-2001) Emeritus Professor of Psychology. A.B., Knox College (1966); M.A., Texas Christian University (1969); Ph.D., Texas Christian University (1971).

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