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## First Edition published July 2011

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### Welcome to the First Edition of the 2011-2012 Undergraduate Catalog

This edition of the catalog reflects all curricular changes approved as of June 1, 2011. To view summaries of all curricular changes (new/deleted courses, course changes, new/deleted program of study, and changes to existing programs of study) approved since the last published catalog, go to [Reports on Disposition by President of Curricular Material](#).

Every effort has been made to make the information accurate as of the date of publication. However, all policies, procedures, and fees and charges are subject to change at any time. Should changes be necessary, appropriate notice will be given.

#### Search the online undergraduate catalog

[Search for a specific course code](#)

[Search for a specific major or minor](#)

#### Other Resources

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**Missouri State University  
2011-12 Undergraduate Catalog**

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Master Academic Calendar

## 2011-12 Academic Calendar

### Fall 2011

**August 8:** Fall Intercession classes begin  
**August 19:** Fall Intercession classes end  
**August 22:** Classes begin  
**September 5:** Labor Day Holiday (no classes)  
**October 11:** First block classes end  
**October 12:** Mid-Semester  
**October 13-16:** Fall Break (no classes)  
**October 17:** Second block classes begin  
**November 22:** Thursday evening classes (4:00 pm or later) meet; Tuesday evening classes do not meet  
**November 23-27:** Thanksgiving Holiday (no classes)  
**December 8:** Last day of classes  
**December 9:** Study Day (no classes)  
**December 10-15:** Final exams period  
**December 16:** Commencement

### Spring 2012

**January 9:** Winter Intercession classes begin  
**January 13:** Winter Intercession classes end  
**January 16:** Martin Luther King Jr. Holiday  
**January 17:** Classes begin  
**February 20:** Presidents' Day Holiday (no classes)  
**February 22:** Monday evening classes (4:00 pm or later) meet; Wednesday evening classes do not meet  
**March 8:** First block classes end  
**March 9:** Mid-Semester  
**March 12:** Second Block classes begin  
**March 17-25:** Spring Break (no classes)  
**April 5-8:** Spring Holiday (no classes)  
**May 10:** Last day of classes  
**May 11:** Study Day (no classes)  
**May 12-17:** Final exams period  
**May 18:** Commencement

### Summer 2012

**May 21:** Intercession classes begin  
**May 28:** Memorial Day Holiday (no classes)  
**June 8:** Intercession classes end  
**June 11:** Classes begin  
**July 4:** Independence Day Holiday (no classes)  
**July 5:** Last day of Session 3/Final Exams for Session 3  
**July 9:** Session 4 begins  
**July 12:** Last day of Session 2/Final Exams for Session 2  
**August 1:** Last day of Sessions 1 and 4  
**August 2-3:** Final Exams for Sessions 1 and 4  
**August 3:** Commencement

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<http://www.missouristate.edu/registrar/catalog/11-12calendar.htm>

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## Academic Department Directory

Academic Unit	Administrator	Location	Phone Number	Course Codes
<b>College of Arts and Letters</b>	Professor Carey H. Adams, Ph.D., Dean	Craig Hall, Room 106	(417) 836-5247	
Department of Art and Design	Professor Wade S. Thompson, M.F.A.	Ellis Hall, Room 308	(417) 836-5110	ART, DES
Department of Communication	Professor Randy K. Dillon, Ph.D.	Craig Hall, Room 375	(417) 836-4423	COM
Department of English	Professor W.D. Blackmon, Ph.D.	Siceluff Hall, Room 215	(417) 836-5107	ENG
Linguistics Program	Professor Christina Biava, Ph.D., Department of English	Siceluff Hall, Room 207	(417) 836-5867	
Department of Media, Journalism & Film	Associate Professor Mark M. Biggs, M.A.	Craig Hall, Room 376	(417) 836-5218	JRN, MED
Department of Modern and Classical Languages	Associate Professor Jason R. Jolley, Ph.D.	Siceluff Hall, Room 223	(417) 836-5122	ARB, CHI, FRN, GRM, GRK, HBW, ITL, JPN, LLT, LTN, MCL, PTG, RUS, SPN
Department of Music	Professor Julie C. Combs, D.M.A.	Ellis Hall, Room 206	(417) 836-5648	MUS
Department of Theatre and Dance	Professor Robert H. Willenbrink, Ph.D.	Craig Hall, Room 355	(417) 836-4400	DAN, THE
<b>College of Business Administration</b>	Professor Stephanie Bryant, Ph.D., Dean	Glass Hall, Room 400	(417) 836-5646	
School of Accountancy	Associate Professor John R. Williams, Sr., Ph.D., C.P.A.	Glass Hall, Room 439	(417) 836-5414	ACC
Department of Computer Information Systems	Professor Jerry M. Chin, D.B.A.	Glass Hall, Room 359	(417) 836-4131	BSE, CIS
Department of Fashion and Interior Design	Associate Professor Shawn D. Strong, Ph.D.	Park Central Office Building, Room 300	(417) 836-5136	FCS, FMD, HID
Department of Finance and General Business	Professor Kent P. Ragan, Ph.D., CFA	Glass Hall, Room 300	(417) 836-5504	BUS, FIN, INS, LAW
Department of Management	Professor Barry L. Wisdom, Ph.D.	Glass Hall, Room 414	(417) 836-5415	MGT
Department of Marketing	Professor Ronald L. Coulter, Ph.D.	Glass Hall, Room 238	(417) 836-5413	MKT, QBA
Department of Technology and Construction Management	Professor Shawn D. Strong, Ph.D.	Glass Hall, Room 200	(417) 836-5121	TCM
<b>College of Education</b>	Professor Dennis J. Kear, Ph.D., Dean	Hill Hall, Room 304	(417) 836-5254	
Department of Counseling, Leadership, and Special Education	Associate Professor Tamara J. Arthaud, Ph.D.	Park Central Office Building, Room 156	(417) 836-5392	COU, EAD, SPE
Department of Childhood Education and Family Studies	Professor Josephine C. Agnew- Tally, Ed.D.	Hill Hall, Room 301A	(417) 836-3262	CFD, ECE, EEM, ELE
Greenwood Laboratory School	Associate Professor Janice R. Duncan, Ph.D.	Greenwood Laboratory School, Room	(417) 836-5124	

		4		
Department of Reading, Foundations, and Technology	Associate Professor Cathy J. Pearman	Hill Hall, Room 207	(417) 836-6769	EDC, EDT, MID, RDG, SEC, SFR
<b>College of Health and Human Services</b>	Professor Helen C. Reid, Ph.D., Dean	Professional Building, Room 110	(417) 836-4176	
Department of Biomedical Sciences	Professor Colette M. Witkowski, Ph.D.	Professional Building, Room 400	(417) 836-5603	ANE, BMS, MTC
Department of Communication Sciences and Disorders	Professor Neil J. DiSarno, Ph.D.	Professional Building, Room 237	(417) 836-5368	CSD
Department of Health, Physical Education, and Recreation	Professor Sarah G. McCallister, Ed.D.	McDonald Hall, Room 103	(417) 836-5370	HLH, PED, RAD, REC, RTH
Department of Nursing	Professor Kathryn L. Hope, Ph.D.	Professional Building, Room 300	(417) 836-5310	HCM, NUR, PBH
Department of Physical Therapy	Professor Akinniran Oladehin, PT, Ph.D.	McQueary Family Health Sciences Hall, Room 204	(417) 836-6179 or 836-6128	PTE
Department of Physician Assistant Studies	Associate Professor Steven T. Dodge, M.D.	Professional Building, Room 200	(417) 836-6151	PAS
Department of Psychology	Professor Timothy K. Daugherty, Ph.D.	Hill Hall, Room 109	(417) 836-4790	GER, PSY
School of Social Work	Associate Professor Susan C. Dollar, Ph.D., LCSW	Pummill Hall, Room 301A	(417) 836-6953	SWK
Department of Sports Medicine and Athletic Training	Associate Professor Tona Hetzler, Ed.D.	Professional Building, Room 160	(417) 836-8553	ATC
<b>College of Humanities and Public Affairs</b>	Professor Victor H. Matthews, Ph.D., Dean	Strong Hall, Room 251	(417) 836-5529	
Area Studies Programs	Professor Pamela R. Sailors, Ph.D.	Strong Hall, Room 207	(417) 836-5529	AAS, GST, OZK
Department of Criminology and Criminal Justice	Professor Craig T. Hemmens, J.D., Ph.D.	Strong Hall, Room 231	(417) 836-3799	CRM
Department of Defense and Strategic Studies	Professor Keith B. Payne, Ph.D.	9302 Lee Highway Suite 760, Fairfax, Virginia 22031	(703) 218-3565	DSS
Department of Economics	Professor Ardeshir J. Dalal, Ph.D.	Strong Hall, Room 351	(417) 836-5516	ECO
Department of History	Professor, Kathleen A. Kennedy, Ph.D.	Strong Hall, Room 410	(417) 836-5511	HST
Department of Military Science	Professor LTC Kirby A. Hanson, M.A.	Freudenberger House, Room 28	(417) 836-5791	MIL
Department of Philosophy	Professor Pamela R. Sailors, Ph.D.	Strong Hall, Room 307	(417) 836-5650	PHI
Department of Political Science	Professor George E. Connor, Ph.D.	Strong Hall, Room 307	(417) 836-5630	PLS
Department of Religious Studies	Professor J. E. Llewellyn, Ph.D.	Strong Hall, Room 251	(417) 836-5514	REL
Department of Sociology and Anthropology	Professor William A. Wedenoja, Ph.D.	Strong Hall, Room 451	(417) 836-5640	ANT, SOC
<b>College of Natural and Applied Sciences</b>	Professor Tamera S. Jahnke, Ph.D., Dean	Temple Hall, Room 142	(417) 836-5249	EGR, SCI
Department of Biology	Professor S. Alicia Mathis, Ph.D.	Temple Hall, Room 221	(417) 836-5126	BIO
Department of Chemistry	Professor G. Alan Schick, Ph.D.	Temple Hall,	(417) 836-5506	CHM

		Room 423		
Department of Computer Science	Professor Kenneth Vollmar, Ph.D.	Cheek Hall, Room 203C	(417) 836-4157	CSC
Department of Geography, Geology, and Planning	Professor Thomas G. Plymate, Ph.D.	Temple Hall, Room 363	(417) 836-5800	GEO, GLG, GRY, PLN
Department of Hospitality and Restaurant Administration	Professor Melissa B. Dallas, J.D.	Professional Building, Room 440	(417) 836-4409	HRA
Department of Mathematics	Professor Kenneth Vollmar, Ph.D.	Cheek Hall, Room 10M	(417) 836-5112	MTH
Department of Physics, Astronomy and Materials Science	Professor David M. Cornelison, Ph.D.	Kemper Hall, Room 101	(417) 836-5131	AST, MAT, PHY
William H. Darr School of Agriculture	Professor W. Anson Elliott, Ph.D.	Karls Hall, Room 201	(417) 836-5638	AGB, AGE, AGN, AGP, AGR, AGS, AGT, AGV
<b>Additional Academic Units</b>				
Missouri State Outreach	Dr. Joye Norris, Associate Provost for Access and Outreach	300 S. Jefferson, Suite 400	(417) 836-4127	
Global Studies Program	College of Arts and Letters			GBL
Honors College	Professor Arthur L. Spisak, Ph.D.	University Hall, Room 115	(417) 836-6370	UHC
Interdisciplinary Studies	Rachelle Darabi, Ph.D., Associate Provost for Student Development and Public Affairs	University Hall, Room 115	(417) 836-8346	IDS
Department of Library Science	Neosha A. Mackey, M.B.A., M.L.S.	Duane G. Meyer Library, Room 302	(417) 836-4525	LIS
Graduate College	Professor Dr. Pawan Kahol, Ph.D. , Interim Dean	Carrington Hall, Room 306	(417) 836-5335; Graduate Admission (417) 836-5331	GRD

Office of the Registrar  
2011-2012 Undergraduate Catalog

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## Course Description/Course Numbering System

### Example of a Course Description

Course Code	Course Number	Course Title	Course Description	Credit Hours	Lecture Contact Hours	Lab/Clinical Contact Hours	Periodicity
GEP	101	First-Year Foundations		2	(2-	0)	F,S,Su

**Course descriptions** may contain specific instructions or limitations. Students should review descriptions carefully. For those courses which have prerequisites, the first item in the course description is the prerequisite statement. Course may also have recommended prerequisites.

**Prerequisites** are indicated in the University Catalog and the web class schedule and will be enforced at the time of registration. The student is responsible for having the appropriate prerequisites prior to enrollment in a course. 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.

**Lecture Contact 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. [More information on credit hours.](#)

**Lab Contact hours** represent the number of hours per week (based on a 15-week semester) the course will meet in a laboratory environment. At least 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 Contact 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 numbered years and an "O" indicates odd numbered years. A "D" indicates that the course will be offered upon sufficient demand.

**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. 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.

### Course Numbering System

Number	Definition
000-099	Background courses
100-199	Lower division courses designed primarily for freshmen
200-299	Lower division courses designed primarily for sophomores
300-399	Upper division courses designed primarily for juniors
400-599	Upper division courses designed primarily for seniors
600-799	Graduate courses designed primarily for master's level study
800-899	Upper-level graduate courses primarily for students in specialist or doctoral programs
900-999	Upper-level graduate courses primarily for students in doctoral programs

[View list of Course Code/Number Changes effective Fall 2011.](#)



**Missouri State University  
Office of the Registrar**

**Course Code and Number Changes Effective Fall 2011  
(Updated July 25, 2011)**

<b>Old</b>	<b>New</b>
AGA 215	AGN 215
AGA 335	AGN 335
AGA 365	AGP 365
AGA 375	AGP 375
AGA 405	AGN 405
AGA 485	AGP 485
AGA 495	AGN 495
AGA 555	AGN 455
AGA 575	AGP 575
AGA 605	AGN 605
AGA 655	AGN 655
AGA 675	AGP 675
AGA 725	AGN 725
AGF 121	AGP 121
AGF 300	AGP 300
AGF 496	AGP 496
AGF 700	AGP 700
AGF 701	AGP 701
AGF 711	AGP 711
AGF 721	AGP 721
AGF 722	AGP 722
AGF 731	AGP 731
AGH 103	AGP 103
AGH 303	AGP 303
AGH 325	AGP 325
AGH 333	AGP 333
AGH 343	AGP 343
AGH 353	AGP 353
AGH 363	AGP 363
AGH 393	AGP 393
AGH 403	AGP 403

<b>Old</b>	<b>New</b>
AGH 443	AGP 443
AGH 453	AGP 453
AGH 483	AGP 483
AGH 573	AGP 573
AGH 643	AGP 643
AGH 730	AGP 731
AGH 753	AGP 753
AGH 773	AGP 773
AGW 143	AGN 143
AGW 351	AGN 351
AGW 513	AGP 513
AGW 613	AGP 613
ANT 451	ANT 351
ANT 710	ANT 645
BIO 761	BIO 661
CSC 201	FMD 210
DAN 465	DAN 565
FRN 435	FRN 335
GEO 570	GEO 568
GER 498	GER 598
GER 499	GER 599
GLG 798	GLG 779
GRY 599	GRY 495
IMT All	EDT all
LIS 728	LIS 628
MED 204	MED 304
SOC 284	SOC 384
SOC 290	SOC 337
SWK 305	SWK 405
THE 411	THE 511

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## Key Terms

This reference guide is designed to assist in defining terms frequently used at Missouri State University and in the Undergraduate Catalog.

**Academic Good Standing** Academic status of students who are not on probation or suspended.

**Academic Year** Starts in August with the fall intersession, continues through the spring semester, and concludes with the summer sessions

**Accelerated Masters** Students admitted into an approved accelerated masters degree program may have a limited number of graduate level courses counted towards both their undergraduate and graduate degree.

**Alumni** Individuals who have attended or graduated from a particular college or university.

**Admission to Degree Program** Required of students who have a major with specific admission requirements.

**Audit** Grading option that allows completion of a course without receiving credit or a traditional grade. An audited course cannot be used to fulfill a degree requirement.

**Block Courses** meets for only the first or second half of the term (semester).

**Board of Governors** Governing body for Missouri State University.

**Boomer** University mascot

**Catalog** University document that lists academic regulations, programs, and course offerings for a particular academic year.

**Certificate** Document representing that the student has completed a University certificate program of study in a defined area.

**Change of Schedule Period** For full-semester classes, the first five days during a fall and spring semester and first two days of summer semester in which students can add and drop classes.

**Class Schedule** Listing of current courses available for a specific semester.

**College** Collection of academic departments.

**College Level Examinations Program (CLEP)** Program that allows students to receive credit by examination instead of course enrollment.

**Commencement** Ceremony held at the end of the spring semester, summer session, and fall semester to recognize candidates for graduation.

**Comprehensive Major** One that does not require completion of a minor.

**Core Courses** Group of foundation courses required by a college, department or major.

**Corequisite** Two or more courses that must be taken during the same semester.

**Credit by Examination** Method of earning academic credit outside of traditional course offerings.

**Credit Hour** Standard unit of measuring coursework.

**Cross-Listed Courses** Two or more different courses taught in the same room, at the same time, with the same instructor. Students may receive credit toward graduation for only one.

**Dean (academic)** The highest administrative officer of a college.

**Declaring a Major/Minor** Indication from student that he/she wishes to pursue a particular major and/or minor that has requirements that must be completed prior to being admitted to the program; Declaration of a major/minor does not mean that the student is locked into a particular catalog's major and/or minor requirements.

**Degree Audit** Advising tool designed to assist in tracking a student's progress towards his or her program of study. It lists the general education, major, minor, and other academic requirements of the University.

**Department Head** Administrative officer holding faculty rank; responsible for a primary unit within an academic organization.

**Diploma** Document provided by the University certifying that the student has earned a degree.

**Dual Enrollment** Typically refers to high school students who are receiving high school credit while also being enrolled in college-level credit. This term can also refer to students who are concurrently enrolled in two or more higher education institutions.

**Enrollment Status** Terms used for reporting a student's academic load to external agencies. (i.e. full-time, half-time, less than half-time)

**Exit Exam** Required for all bachelor degree graduates for assessment purposes.

**General Education Program** Group of foundation courses required of undergraduate students regardless of the student's major.

**Grade Point Average (GPA)** Calculation derived from the division the grade points earned by the number of credits attempted.

**Hold** Block which prohibits students from functions such as registering for courses or receiving a transcript or diploma. Most holds are due to an unpaid financial obligation, or failure to complete a required process.

**Honors College Program** Designed to serve the needs of academically talented, high-achieving students accepted into the Honors College Program.

**Identical Courses** Courses identified by multiple course codes and/or numbers that are taught in the same classroom, at the same time, and by the same instructor. Student may only receive credit toward graduation for one.

**Incomplete Grade** Assigned when a student has not completed all work for a course and the instructor agrees to allow additional time for completion of the course.

**Intent to Graduate** Form completed by students in their final semester of coursework. This form triggers a review of the student's academic record, inclusion in the commencement program, and diploma ordering.

**Intersession** Brief period (typically 1-3 weeks) between semesters when a limited number of courses are offered.

**Lower Division** Undergraduate courses numbered lower than 300.

**Major** Collection of courses and requirements, that is designated as the student's primary area of specialization. Appears on the student's diploma and transcript.

**Minor** Collection of courses indicating additional specialization in an area of study beyond the major. It is not as comprehensive as a major and does not appear on the student's diploma. It is listed on the student's transcript.

**Mixed Credit** Courses that are part of an accelerated masters program in which students can receive both graduate and undergraduate credit.

**Non-Comprehensive Major** One that requires completion of a minor in order meet graduation requirements.

**Non-resident** Student who does not meet requirements for classification as a Missouri resident for fee purposes in accordance with the residence policy.

**Non-traditional student** Includes evening students, married students, students with children, and students of 22 years of age or older.

**Overload** Semester credit hours that exceed the maximum number of hours permitted based on the student level (undergraduate or graduate). Permission is required for overload.

**Option** Collection of courses within the major that represent an specialized area of study. Officially approved options appear on the transcript but are not printed on the diploma.

**Pass/Not Pass** Grading option that allows students to pursue coursework without affecting their GPA.

**PIE (Partners in Education)** Program designed to facilitate communication between first-year students and their families. Through written consent of the student, members will have increased access to their student's information.

**Postbaccalaureate** A non-degree seeking graduate student who has earned a bachelors degree and wishes to take additional courses but not pursue an additional degree.

**Prerequisite** Specific requirements that must be met prior to enrolling in a given class. Prerequisites may consist of courses, test scores, or enrollment in a specific program of study.

**Probation** Status that indicates unsatisfactory academic progress. Students may be subject to academic load limitations and other restrictions.

**Program of Study** All requirements that a student must complete in order to be awarded a degree or University certificate.

**Registration Restriction** A type of prerequisite such as program of study or student classification (e.g. COBA majors must be admitted to COBA; senior status; graduate status, etc.)

**Reinstatement** Process by which a suspended student appeals to return to the university.

**Semester** Instruction period offered each fall and spring. Additional instructional periods include multiple intersessions and summer session.

**Senior Permission** Allows students to take graduate coursework while still in an undergraduate classification. Permission is required.

**Service Learning** Program which allows students to earn academic credit in selected courses in exchange for meaningful and productive community service.

**Scholastic Honors** Graduation honors based on the student's academic performance.

**SOAR (Student Orientation, Advisement, and Registration)** Program designed to assist students in making a successful transition to university life. The program is required for all first-time freshmen.

**Student Services Fees** Required fees assessed at the time of registration that cover the student's access to a variety of services, programs, and activities.

**Suspension** Status that prevents a student from enrolling in courses unless an exception is granted by the dean of the student's major.

**Syllabus** Document describing the objectives, outcomes, assessment activities, and structure of a course; syllabi are made available to students during the first week of classes.

**Term** Same as a semester

**Transcript** Serves as the student's official academic record and the University's official record of credit and degrees awarded, including the courses taken by a student and the grades received in each course. Probations, suspensions, and disciplinary expulsions also appear on the transcript.

**Transfer Student** Student who has completed 24 or more transferable credit hours after high school graduation.

**Upper Division** Undergraduate courses numbered higher 300 and above.

**"W" Grade** Indicates student withdrew from course without academic penalty.

**Withdrawal** When a student drops *all* classes for a given semester.

**ZipCard** Student's official University identification card.

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## University Profile

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## University Mission and Community Principles

### University Mission

Missouri State University is a public, comprehensive university system with a mission in public affairs, whose purpose is to develop educated persons while guided by three overarching and enduring commitments to student learning, inclusive excellence and institutional impact.

The University's identity is distinguished by its public affairs mission, which entails a campus-wide commitment to foster expertise and responsibility in ethical leadership, cultural competence and community engagement.

The academic experience is grounded in a general education curriculum which draws heavily from the liberal arts and sciences. This foundation provides the basis for mastery of disciplinary and professional studies. It also provides essential forums in which students develop the capacity to make well-informed, independent critical judgments about the cultures, values and institutions in society.

The Missouri State University campuses are structured to address the special needs of the urban and rural populations they serve.

- **Missouri State University-Springfield** is a selective admissions, graduate level teaching and research institution.
- **Missouri State University-West Plains** is a separately accredited open admissions campus primarily serving seven counties in south central Missouri.
- **Missouri State University-Mountain Grove** serves Missouri's fruit industry through operation of the State Fruit Experiment Station.
- **Missouri State Outreach** provides anytime, anyplace learning opportunities through telecourses, Internet-based instruction, iTunes U and through its interactive video network.
- The University also operates various other special facilities, such as the Darr Agricultural Center in southwest Springfield, the Journagan Ranch in Douglas County, the Jordan Valley Innovation Center in downtown Springfield, the Bull Shoals Field Station near Forsyth, Baker's Acres and Observatory near Marshfield, the Missouri State University Graduate Center in Joplin and a branch campus at Liaoning Normal University (LNU) in Dalian, China.

### 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:**

- Being open minded to embrace the benefits and richness that diversity and inclusiveness bring to the community of scholars and to recognize them as catalysts for educational excellence.
- 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.

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## Heritage

Missouri State University was founded as the Missouri State Normal School, Fourth District, by legislative action on March 17, 1905. Missouri State first opened its doors in June 1906. After 105 years and four name changes, Missouri State is a comprehensive state university system offering a wide variety of programs and services to its students and the citizens of the state. During the 1995 session of the Missouri General Assembly, Missouri State received a statewide mission in public affairs, making it the only Missouri university emphasizing the development of aware, committed, and active participants in tomorrow's society. In a campus ceremony on March 17, 2005, the 100th anniversary of Founders' Day, Governor Matt Blunt signed Senate Bill 98, which included changing Southwest Missouri State University's name to Missouri State University. This is the fifth and final name for the university. The institution was founded as the Normal School in 1905, then changed to Southwest Missouri State Teachers College in 1919, Southwest Missouri State College in 1946, and Southwest Missouri State University in 1972. Each new name has reflected the changed nature of the institution.

Missouri State University-Mountain Grove has a legislative mandate to generate knowledge through research and to disseminate this knowledge for the economic development of the Missouri fruit industry. The Mountain Grove Campus is home to the State Fruit Experiment Station, which was established by a legislative act in 1899 and is the oldest identifiable segment of Missouri State. Until 1974, the station was operated as a state agency under a board of trustees appointed by the governor. As a result of the Omnibus State Reorganization Act of 1974, administrative responsibility for the State Fruit Experiment Station was given to the Board of Governors of Missouri State. Following university reorganization in 1994, the station was assigned to the Department of Fruit Science in the College of Natural and Applied Sciences.

Missouri State-West Plains was founded in 1963 as the West Plains Residence Center. In 1977, the Board of Governors and, subsequently, the Missouri General Assembly, designated the name the "West Plains Campus" to replace Residence Center. In 1981, the legislature enacted a permanent status bill for the campus. In 1991, the legislature passed House Bill 51 which gave the West Plains Campus the authority to offer "one-year certificates, two-year associate degrees and credit and non-credit courses." In 2005, the legislature passed Senate Bill 98 which included changing the name to Missouri State University-West Plains.

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## Governance

### Board of Governors

Missouri State University is under the general control and management of the **Board of Governors**, which according to statutes of the state of Missouri, possesses full power and authority to adopt all needful rules and regulations for the guidance and supervision of the University. Currently, Missouri State University is governed by a nine-member Board of Governors. All members are appointed by the Governor, with the advice and consent of the Missouri Senate, to serve six-year terms. The nine-member Board of Governors shall represent each of Missouri's nine congressional districts. A non-voting member, a current Missouri State University student, also sits on the Board. The present Board of Governors consists of the following members:

Gordon Elliott, Seventh District (Chair)  
Cathy Smith, Sixth District (Vice Chair)  
Orvin Kimbrough, First District  
Vacant, Second District  
John Winston, Third District  
Brian Hammons, Fourth District  
Phyllis Washington, Fifth District  
Mary Sheid, Eighth District  
Elizabeth Bradbury, Ninth District  
Brandt Shields, Student Member

The **President** is the chief executive officer of the University, responsible to the Board of Governors for the administration of institutional policies and operations. 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 concerns of the faculty. The **Graduate Council** is an elected body of graduate faculty established to address matters concerning graduate education (i.e. programs, curricula, and policies). The **Staff Senate** is an elected body from the University support staff that addresses concerns related to the staff. The Student Government Association provides the means by which students can participate in campus governance, student discipline, and 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.

### Administrative Council

System administration and coordination is the responsibility of the **Missouri State University Administrative Council**, which reports to the System President. The Council is responsible for helping develop administrative and support systems that ensure that the campuses operate cooperatively, efficiently, economically and without duplication. The Administrative Council provides effective administration of the System while requiring minimal administrative overhead. No positions have been or will be added for System purposes. The responsibility for academic programs remains with the faculty with accepted review and approval procedures. Present Administrative Council members include:

Clif Smart, Interim President  
Dr. Leslie Anderson, Interim Vice President for Diversity and Inclusion  
Dr. James Baker, Vice President for Research and Economic Development  
Dr. Drew Bennett, Chancellor, Missouri State University-West Plains Campus  
Dr. Earle Doman, Vice President for Student Affairs and Dean of Students  
Brent Dunn, Vice President for University Advancement  
Dr. Frank Einhellig, Interim Provost  
Dr. Penni Groves, Interim General Counsel  
Steve Foucart, Interim Chief Financial Officer (Financial Services)  
Dr. Tammy Jahnke, Dean, College of Natural and Applied Sciences (Rotating position)  
Paul Kincaid, Chief of Staff/Assistant to the President for University Relations  
John McAlear, Secretary to the Board of Governors  
Ken McClure, Vice President for Administrative and Information Services  
June McHaney, Director, Internal Audit  
Kyle Moats, Director of Athletics

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## Missouri State University System

The Missouri State University campuses are structured to address the special needs of the urban and rural populations they serve. Missouri State University-Springfield is a selective admissions, graduate level teaching and research institution. Missouri State University-West Plains is an open admissions campus serving seven counties in south central Missouri. Missouri State University-Mountain Grove serves Missouri's fruit industry through operation of the State Fruit Experiment Station. The Extended Campus provides learning opportunities through telecourses, Internet-based instruction and through its interactive video network (BearNet). The University also operates various other special facilities, such as the Darr Agricultural Center in southwest Springfield, the Jordan Valley Innovation Center in downtown Springfield, the Bull Shoals Field Station near Forsyth, Baker's Acres and Observatory near Marshfield, the Missouri State University Graduate Center in Joplin, and a branch campus at Liaoning Normal University (LNU) in Dalian, China. In addition, Missouri State has the operations and program offerings of one entire academic department, its Department of Defense and Strategic Studies, located near Washington, D.C. in Fairfax, Virginia.

### Missouri State University-Springfield Campus

The Missouri State University-Springfield Campus offers a spectrum of educational programs that respond to regional and statewide needs while striving for national and international excellence. Missouri State 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 collaborates with many communities and clientele throughout the region in order to bridge the socio-economic, cultural, and political gaps that exist among them. Missouri State continues to shape its structures and design its policies and practices to enhance its effectiveness as a key institution for the citizens of Missouri.

The Missouri State University-Springfield Campus offers baccalaureate, master's, specialist in education, and professional doctorate degrees, and is the host site for a cooperative doctorate degree in educational leadership with the University of Missouri-Columbia. As of 2011, the Springfield Campus offered programs through 44 academic departments organized in six academic colleges. More than 150 academic programs and options are offered at the undergraduate level, leading to 10 undergraduate degrees.

In the 1990s, mission enhancement funds were provided to Missouri State, enabling the institution to better serve the state's need for a high-quality undergraduate/graduate institution. As a result, the Springfield Campus has become a major graduate education provider, offering 48 master's degree programs and working with the University of Missouri to provide cooperative master's and doctoral level programs. Graduate students comprise more than 16 percent of the campus' total student population. Even with these changes, undergraduate education remains a priority, and implementation of selective admissions standards will continue, with a sensitivity to the needs of the 24-county service area and the state of Missouri.

### Missouri State University Downtown

In 1996, Missouri State University and Springfield entered into an agreement to direct future University expansion away from neighborhoods, such as Phelps Grove to the south of campus, and toward the downtown area northwest of campus. That agreement, reflected in the Missouri State Master Plan Visioning Guide and the Vision 2020 Springfield-Greene County Comprehensive Plan, has resulted in the University acquiring and/or leasing increasing amounts of properties in the downtown area. 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.

IDEA Commons is Missouri State's vision and commitment to create a new type of urban research park that is blended with residential, retail and entertainment facilities, and supported by various university programs. This unique project will bring together Innovation, Design, Entrepreneurship and Arts (IDEA) and is an example of how the university continues to be engaged in promoting the community's livability and economic success. IDEA Commons is a geographic area in downtown Springfield that will include locations for spin-off commercialization of technologies and university programs that will create an environment to generate creativity, innovation and entrepreneurship for the benefit of the Springfield region.

The Missouri State University Foundation owns the 81,000-square-foot Kenneth E. Meyer Alumni Center and adjacent parking garage, and Missouri State owns the 62,500-square-foot Jim D. Morris Center for Continuing Education and two nearby surface parking lots. In addition, Missouri State leases approximately 60,000 square feet to support numerous programs, including the Institute for School Improvement and the Department of Art and Design.

The University will continue to invest in new and leased facilities directed by the following objectives:

- To provide outstanding educational opportunities, 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 can expand as required while, at the same time, fulfilling its obligations outlined in the Phelps Grove agreement with the City of Springfield
- To stimulate 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 long-term partnerships with the City of Springfield, the Springfield School District, Ozarks Technical Community College, and many public and private entities that have an impact on the development of Springfield and the region.

The University will continue to assess the feasibility/desirability of locating other 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 Missouri State intends to be an active partner in developing and revitalizing Springfield's center city.

### Missouri State University-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. The West Plains Campus has a separate five-year plan. Missouri State University-West Plains is structured to meet the needs of a seven-county rural area of south central Missouri within the larger Springfield metropolitan region. Missouri State University-West Plains is mandated to offer one-year certificates, two-year associate degree programs, and credit and non-credit courses. Missouri State University-West Plains also hosts bachelor's and master's degree programs provided by the Springfield Campus through both on-site offerings and



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, Associate of Science in Nursing, and Associate of Applied Science – with approximately 20 emphases/areas of specialization. The campus is integral to 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.

Missouri State University-West Plains offers courses leading to the Associate of Arts in General Studies at Shannon Hall in Mountain Grove. Missouri State University-West Plains also provides educational opportunities via the BearNet interactive video network; university/community programs; and certificate programs, customized training programs, and non-credit outreach programs based on community needs.

#### **Missouri State University-Mountain Grove Campus**

The major activities on the 190-acre Missouri State University-Mountain Grove Campus are the Missouri State Fruit Experiment Station, the William H. Darr School of Agriculture, and the Center for Grapevine Technology. The Fruit Experiment Station was established in 1899 by the Missouri Legislature. The Station has 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 basic and applied research and an industry advisory program focused on pomology, enology, viticulture, plant pathology, entomology, molecular genetics, and plant physiology.

Missouri State University-Mountain Grove supports a fruit industry advisory program, including fruit crops, grapes and wine, and consumer education. The advisory program uses traditional on-site advisory classes and workshops coupled with interactive video and Internet-based training. In cooperation with the departments of Biology and Chemistry, the William H. Darr School of Agriculture offers a cooperative master's degree in plant science, as well as undergraduate internships and a limited number of undergraduate classes. The Paul Evans Library of Fruit Science supports the State Fruit Experiment Station, as well as the Plant Science master's degree students and Missouri State University-West Plains students.

#### **Missouri State Outreach Programs**

Missouri State 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. The academic programs offered undergo the same academic review and scrutiny as academic programs offered in traditional settings. The programs have the administrative and technology infrastructure, faculty support, and student support services necessary to meet the needs of distance learning students. The distance learning strategy involves three major delivery systems: interactive video (BearNet), Internet-based instruction (Missouri State University Online), and telecourses (including interactive CD). Refer to "Missouri State Outreach" in the Additional Academic Units section of the catalog for additional information.

#### **China Campus**

As one part of the attempt to internationalize its programs, the University began in 2000 to operate the Missouri State Branch Campus at Liaoning Normal University (LNU) in Dalian, China. An accredited two-year Associate of Arts degree is offered by the West Plains Campus and the Bachelor of Science in General Business is offered by the Springfield Campus. Additional Associate of Arts and completion programs in China will be established that are consistent with University priorities and opportunities.

#### **Other Campuses**

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

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## Centers for Research and Service

### **Baker Observatory**

Refer to [Department of Physics, Astronomy, and Physical Science](#)

### **Bernice Warren Center for Archaeological Research**

Refer to [College of Humanities and Public Affairs](#)

### **Bull Shoals Field Station**

Refer to [College of Natural and Applied Sciences](#)

### **Bureau of Economic Research**

Refer to [College of Humanities and Public Affairs](#)

### **Center for Arts in the Schools**

Refer to [College of Arts and Letters](#)

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

Refer to [College of Business Administration](#)

### **Center for Dispute Resolution**

Refer to [College of Arts and Letters](#)

### **Center for Grapevine Biotechnology**

Refer to [William H. Darr School of Agriculture](#)

### **Center for Multidisciplinary Health Education, Research and Services (CMHERS)**

Refer to [College of Health and Human Services](#)

### **Center for Research and Service**

Refer to [College of Health and Human Services](#)

### **Center for Resource Planning and Management**

Refer to [College of Natural and Applied Sciences](#)

### **Center for Social Sciences and Public Policy Research (CSSPPR)**

Refer to [College of Humanities and Public Affairs](#)

### **Community and Social Issues Institute (CSII)**

Refer to [Missouri State Outreach](#)

### **Darr Agriculture Center**

Refer to [William H. Darr School of Agriculture](#)

### **Institute for School Improvement (ISI)**

See [College of Education](#)

### **Missouri Fine Arts Academy**

Refer to [College of Arts and Letters](#)

### **Ozarks Environmental and Water Resources Institute (OEWR)**

Refer to [College of Natural and Applied Sciences](#)

### **Ozarks Public Health Institute**

The Institute addresses 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. The Institute reports to the Office of the Provost.

### **Ozarks Studies Institute**

Refer to [College of Arts and Letters](#)

### **Roy Blunt Jordan Valley Innovation Center**

The Roy Blunt Jordan Valley Innovation Center (JVIC) was established in 2003 to develop new products, create jobs, and develop the educated workforce necessary to attract and retain advanced materials and biotechnology industries in Missouri. Focus areas include medical instruments and materials, bioprocessing techniques and equipment, agribusiness research and development, and chemical and biological sensors and systems that will be developed in an environment where university researchers and students work hand in hand with scientists from established companies on new technologies that will shape the future.

JVIC consists of three sub-centers: **Center for Applied Science and Engineering (CASE)**; **Center for Biomedical and Life Sciences (CBLS)**; and **Springfield Innovation, Inc.** The Center for Applied Science and Engineering was established to provide engineering and technical support, and to conduct research to enhance the development of advanced technology industry in Missouri. The Center for Biomedical and Life Sciences supports Missouri-based life sciences and biomedical industries while enhancing educational opportunities through participation in business-oriented projects and services. CBLS was established in 2006. Springfield Innovation, Inc. was established in 2006 and is a designated Missouri Innovation Center, one of eight in the state of Missouri. The mission of Springfield Innovation, Inc. is to assist technology-based entrepreneurs in southwest Missouri. Springfield Innovation, Inc. has access to a wide network of business support services, including financing, new markets, technical assistance, and education and training. JVIC and its three sub-centers reports to the Vice President for Research and Economic Development.

### **Southwest Missouri Area Health Education Center (SWMO AHEC)**

Refer to [College of Health and Human Services](#)

### **Writers Hall of Fame®America**

Refer to [College of Arts and Letters](#)

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## Accreditations and Approvals

### Institutional Accreditation

Missouri State University is accredited by the Higher Learning Commission of the North Central Association of Colleges and Secondary Schools - a nationally recognized regional accrediting organization. Institutional accreditation has been continuously maintained since 1915 with the most recent approval occurring in 2006 and resulting in full accreditation for the maximum allowable ten-year period. Accreditation of an institution by the Higher Learning Commission indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation. Accreditation by the Higher Learning Association is not partial; it applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to the students who attend the institution. The Statement of Affiliation Status and the Organizational Profile for Missouri State University can be found at: [www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org). Individuals may also contact the Higher Learning Commission at:

30 N. LaSalle Street, Suite 2400  
Chicago, IL 60602-2504  
(800) 621-7400

### Specialized Academic Program Accreditations

- AACSB International - The Association to Advance Collegiate Schools of Business
- Accreditation Commission for Programs in Hospitality Administration
- Accreditation Review Commission on Education for the Physician Assistant
- American Council for Construction Education
- American Speech-Language-Hearing Association
- Association for Childhood Education International
- Association of Technology, Management, and Applied Engineering
- Commission on Accreditation for Dietetics Education
- Commission on Accreditation of Athletic Training Education
- Commission on Accreditation in Physical Therapy Education
- Commission on Collegiate Nursing Education
- Computing Accreditation Commission 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
- Missouri State Board of Nursing
- National Association for Sport and Physical Education
- National Association for the Education of Young Children
- 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 Council for Social Studies
- National Recreation and Park Association
- Planning Accreditation Board

### Approvals

The University was formed by legislative action in 1905 and given statutory authority to grant degrees. In addition, the University is approved by the following state and federal entities:

- U.S. Department of Education
- U.S. Department of Veterans Affairs
- U.S. Department of Homeland Security/U.S. Immigration and Customs Enforcement
- Missouri Department of Higher Education

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## Admissions, Costs, Financial Aid, and Housing

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# Admissions

## Freshman Admission

### Op5.01-3 Freshman Admission Requirements

You will qualify for admission to Missouri State if you are (or will be) a graduate of an accredited high school and meet both the core curriculum and selection index requirements described below. If you have completed courses for college credit, you must also have at least a 2.00 grade point average on those courses.

### High School Core Curriculum

The high school core curriculum was established by the Missouri Department of Higher Education and is required of all students except those who graduated from high school prior to 1996.

- **English: Four units, two of which must emphasize composition or writing. One unit may be speech or debate.** *Acceptable courses: English or language arts, literature, speech, debate, journalism (if writing intensive). Unacceptable courses: yearbook, dramatics, mass media.*
- **Mathematics: Three units.** High school algebra and beyond, including algebra II (*If algebra I is taken in 8th grade, three more units must be taken in high school*). *Acceptable courses: algebra I, geometry, algebra II, pre-calculus, math analysis. Unacceptable courses: computer math, pre-algebra, general math, consumer math.*
- **Social Studies: Three units.** Must include American history and at least one semester of government. *Acceptable courses: world history, American history, American government, state/regional history, principles of democracy, civics, psychology, sociology, economics, political science, geography. Unacceptable courses: family relations, consumer education, personal finance.*
- **Science: Three units, not including general science.** One unit must be a laboratory course. *Acceptable courses: biology, chemistry, physics, anatomy and physiology, botany, zoology, integrated science, physical science, earth science. Unacceptable courses: general science, consumer science, environmental studies.*
- **Fine Arts: One unit.** Graduates of accredited Missouri high schools meet this through completion of the fine-arts requirement for graduation. *Acceptable courses: art, music (band, orchestra, choir, music appreciation or music theory), dance, drama, theatre appreciation. Unacceptable courses: speech, mass media, arts and craft.*
- **Academic Electives: Three units.** Must be selected from foreign language and/or two or more of the areas listed above. Two units of a foreign language are strongly recommended. *Acceptable courses: Must be selected from foreign language and/or a combination of two or more of the areas listed above or computer science (if algebra I is a prerequisite). Unacceptable courses: physical education, accounting, family studies, keyboarding, vocational courses.*
- **Additional Electives:** Additional elective credit to bring total to 24 units (required of Missouri high school graduates).

For additional details and **examples of core curriculum courses**, please contact your high school counselor or our office.

### Selection Index

If you successfully complete the high school core curriculum (listed above) before graduating from high school and meet **any one** of the following criteria, you will be **automatically admitted** to Missouri State University:

- ACT score of 24 or higher (SAT 1090)
- 3.5 cumulative GPA on a 4.0 scale
- Rank in the top 25 percent of your graduating class

Applicants who do not meet one of the automatic admission criteria listed above, but who have successfully completed the core-curriculum requirement before graduating from high school, can still be admitted if they meet the requirements as laid out in the sliding scale below:

How to Use This Scale					
<b>STEP 1:</b> Using your class rank percentile and GPA, determine which will place you higher on this scale. For example, if your class rank percentile is 60 and your GPA is 3.30, you would use the line based on your GPA. If your school does not rank, your GPA will be used to determine your eligibility.			<b>STEP 2:</b> Follow the line you identified in Step 1 across the scale to determine the minimum ACT or SAT score you must have*. Using the same example from Step 1, a student with a class rank percentile of 60 and a GPA of 3.30 would need <b>either</b> an ACT composite of 19 or higher <b>or</b> an SAT total of 910 or higher.		
Class Rank Percentile	or	GPA	ACT Composite	or	SAT Total**
75 or higher		3.50 or higher	<i>No minimum test score required for admission purposes.</i>		
73 to 74		3.48 to 3.49	18		860
64 to 72		3.25 to 3.47	19		900
56 to 63		3.04 to 3.24	20		940
48 to 55		2.85 to 3.03	21		980
40 to 47		2.63 to 2.84	22		1020

<b>34 to 39</b>		<b>2.48 to 2.62</b>	<b>23</b>		<b>1050</b>
<b>Below 34</b>		<b>Below 2.48</b>	<b>24</b>		<b>1090</b>

\*\* sum of critical reading and math scores

You may also use our [admission calculator](#) to determine if you meet the selection index requirement.

**To calculate your class rank percentile:** Subtract your rank in class from the number of students in your class then divide that number by the number of students in your class. For example, if you are ranked 24th in your class of 200, your class rank percentile is 88  $[(200 - 24) \div 200 = 0.88$  or 88th percentile].

**If your school does not grade on a 4.00 scale:** Convert your GPA to a 4.00 equivalent by multiplying your GPA by four and dividing that number by the scale your school uses. For example, if you have a 10.50 GPA on a 12.00 scale, your converted GPA equivalent is 3.50  $[(10.50 \times 4) \div 12 = 3.50]$ .

\* The ACT/SAT requirement is waived for admission purposes for students age 22 and older and for [international students](#).

### Freshman Admission Alternatives

As a selective admission institution, our objective is to admit students with demonstrated potential for academic success. We recognize that some students have potential for success not clearly evident through standard measures of class rank, grade point average, and test scores. If you **do not meet the requirements listed above**, please review our [freshman admission alternatives](#).

The Missouri State University system includes an **open admission** campus in West Plains (about 100 miles southeast of Springfield). Students who do not qualify for admission to the Springfield Campus may begin at the West Plains Campus, which offers programs that enable students to transfer seamlessly to Springfield. For information on the West Plains Campus, please visit [www.wp.missouristate.edu](http://www.wp.missouristate.edu) or call 417-255-7955.

The university reserves the right to limit enrollment and to admit students on a space-available basis. Students are encouraged to apply early.

If you have any questions, please call the Office of Admissions at 417-836-5517 or 800-492-7900, or write to: Office of Admissions, Missouri State University, 901 S. National Ave., Springfield, MO 65897.

### Freshmen Orientation (SOAR)

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 Adult and Veterans Student Services. Students who are admitted late and/or cannot attend a SOAR program or register through Adult and Veterans 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. Questions regarding SOAR may be directed to the Orientation Coordinator mail at Plaster Student Union 417, 901 S. National Ave, Springfield, MO 65807, or phone (417) 836-7641 or (888) 352-6781, or via email at [SOAR@MissouriState.edu](mailto:SOAR@MissouriState.edu).

## Transfer Students Admission

### *Op5.01-9 Transfer Students Admission Policy*

You are considered to be a transfer student if you have enrolled in another regionally accredited college or university following your graduation from high school. Your eligibility for admission will be based on the number of credit hours you have completed, which may also determine such factors as your registration privileges and eligibility for scholarships.

### Admission Requirements

**You are eligible for admission if you have completed at least 24 hours of transferable credit following your graduation from high school and you have a cumulative grade point average of 2.00 or higher on your transferable credit.**

If you have completed fewer than 24 hours of transferable credit following your graduation from high school, then you must have a cumulative grade point average of 2.00 or higher on transferable credit you have completed and you must also meet our [freshman admission requirements](#). To see if you meet the freshman admission requirements, check the [admission eligibility calculator](#).

### What is needed for the application process?

- A completed application for admission. [Apply online](#) or download, print and mail in the paper application for undergraduate admission.
- Pay the application processing fee
- Transcript(s) from all colleges and universities from which you have earned academic credit.

### When should I apply?

You may apply for admission up to one year prior to transferring to Missouri State. You should consider applying early in your last semester at your current institution. Apply online at [www.missouristate.edu/apply.htm](http://www.missouristate.edu/apply.htm).

### Transfer Credit

Missouri State awards credit for courses taken through institutions accredited by regional accrediting agency. Missouri State course equivalencies are established by the academic departments. Missouri State maintains a list of courses from many institutions. To view these courses go to <https://www.secure.missouristate.edu/appadm/transequiv/transequiv.asp>. There is no limit to the number of credit hours a student may transfer.

### How can I check my admission status?

You may view your current admission status [here](#).

### After I am admitted what do I do?

Visit the [transfer advisement web page](#).

### Transfer Student Orientation (SOAR)

Two options for orientation exist for transfer students at Missouri State University. The orientation program in which you are required to participate is dependent upon the amount and type of transfer credit you are bringing to the University. For more information and your options, visit the [SOAR web site for transfer students](#).

## Readmission Policy

### *Op5.01-8 Readmission Policy*



This section deals with the issues and concerns related to students who have previously attended Missouri State.

If you are a student who has attended Missouri State University as an undergraduate degree seeking student and wish to return to MSU in that same classification **and** you have been out of classes for over one academic year, you will need to **reapply** to Missouri State. You may use the **online application** to do this and choose the **readmit application**. If you have not attended classes anywhere since you left Missouri State, and you completed the admission process when you last attended here, this is all we need in order to process your readmission and get you ready to register. If you have attended classes somewhere since you left here, we will have to have those transcript(s) sent to us so that we can process your application.

The above procedure is also applicable to those students who may have left Missouri State on probation or suspension. You may review the reinstatement policy in the catalog at <http://www.missouristate.edu/registrar/catalog/acstat.html>.

If you are a student who attended Missouri State University as a non-degree seeking student and now wish to reapply as a degree seeking student, please get an application from the **Office of Admissions**. There is not a "reclassification" application available on the web at this time. You will be required to meet the admission requirements as a degree seeking student and provide the Office of Admissions with all transcripts necessary to process your application.

**Registration** information can be found on the **Office of the Registrar website**.

## Other Student Types

### Adult Students

Adult, non-traditional, and part-time students interested in undergraduate programs should contact the Adult and Veterans Student Services, (417) 836-6929 or toll-free at (800) 492-7900. Orientation programs are sponsored 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.

### 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 and sophomores 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 Academic Advisement Center at (417) 836-5258, University Hall, room 109. Students interested strictly in the high school-based (dual credit) program should contact The Extended Campus at (417) 836-4128 or toll free (877) 678-2005.

### Graduate Students

Students interested in graduate programs are encouraged to contact the Graduate College at (417) 836-5331 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 available online at the [Graduate College web site](#).

### International Students

Missouri State University welcomes applicants from around the world. International students may apply as first-time freshmen, transfer, or graduate students. The University is authorized under federal law to enroll non-immigrant alien students. Admission requirements, policies, procedures, and fees for international students are different and they supersede any related policies stated elsewhere.

Students should refer to the detailed policies and procedures and the downloadable forms available on the [International Services web site](#). Requests for information may be submitted through the web site or by email to [InternationalStudentServices@missouristate.edu](mailto:InternationalStudentServices@missouristate.edu), or by phone at (417) 836-6618, or by fax at (417) 835-7656.

### Non Degree 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 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 Adult and Veterans Student Services at (417) 836-6929 or toll-free at (800) 492-7900 for information.

### Non Degree Seeking Graduate Students (Postbaccalaureate)

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 non degree graduate students (postbaccalaureate) without providing transcripts. Postbaccalaureate students may take either undergraduate or graduate courses (courses numbered 600 and higher automatically carry graduate credit 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 or applied to a graduate degree program. 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 admission and requirements. Individuals interested in admission under this classification should contact the Adult and Veterans Student Services at (417) 836-6929 or toll-free at (800) 492-7900 for information. Generally, postbaccalaureate students are not eligible for financial aid.

Individuals who have a bachelor's degree from an accredited college or university, 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 or visit [www.missouristate.edu/certification](http://www.missouristate.edu/certification). This office provides a program evaluation service (a \$50 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. Teacher certification students may be eligible for financial aid.

## Admission to Degree Program

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

[Policy Regarding Applicants for Admission with Criminal Backgrounds and Suspensions/Dismissals](#)

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## Costs and Fees

### 2011-2012 Required Student Fees

Required Student Fees are a combination of Tuition and Student Services Fees. Tuition is assessed based on the level (undergraduate or graduate), type, location, and delivery of the course. Courses **Audited** count in the same way as courses taken for credit in determining fees. The Required Student Fees are subject to revision by the Board of Governors without notice. For more detailed information, refer to the Costs and Fees web site at: [www.missouristate.edu/registrar/costs.htm](http://www.missouristate.edu/registrar/costs.htm).

#### Tuition

Tuition for regular instruction (per credit hour) for courses numbered 1-599 is \$194 for Missouri residents and \$388 for non-Missouri residents. For courses numbered 600-999, tuition is \$227 for Missouri residents and \$454 for non-Missouri residents.

For more detailed information regarding tuition for Internet based instruction, BearNet locations, graduate courses in the College of Business Administration and College of Health and Human Services, and other exceptions, refer to the Costs and Fees web site.

#### Student Services Fees

Student Services Fees are assessed for classes meeting on the Springfield Campus. Fees are based on an incremental scale based on the number of hours enrolled with the maximum amount being \$389 for the fall and spring semesters and \$209 for the summer session (see following scale). The Student Services Fees are committed to provide activities, programs, and services to students and are charged regardless of usage.

The Student services Fees will not be assessed for sections identified as: Intersession, iCourse, Internet, and courses taught in any location other than Springfield Campus. Sections identified as "short" will only be assessed Student Services Fees if the class is scheduled to meet on campus more than four times. For more detailed information regarding the Student Services Fees, refer to the Costs and Fees web site.

#### Fall 2011 and Spring 2012

1-hour load: \$127  
2-hour load: \$165  
3-hour load: \$201  
4-hour load: \$238  
5-hour load: \$275  
6-hour load: \$312  
7 or more-hour load: \$389

#### Summer 2012

1-hour load: \$96  
2-hour load: \$133  
3-hour load: \$169  
4 or more-hour load: \$209

#### Supplemental 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 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 in the course description section of the catalog and class schedule and will be assessed at the time of registration. [Complete listing of 2011-12 supplemental course fees.](#)

#### Policy on Residency for Fee Purposes

Because Missouri State 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 Board of Governors. Current students seeking a change in their residence classification should contact the Office of Admissions. The complete policy is available at:

<http://www.missouristate.edu/policy/residency.htm>

#### My Payment Plan

Missouri State University allows students in good financial standing to make charges on their accounts for required student fees, residence hall charges, Taylor Health Center Charges, parking permits and fines, bookstore charges, library fines and other charges and pay for those charges in installments under My Payment Plan. The complete policy is available at: <http://www.missouristate.edu/policy/paymentplan.htm>

#### Payment Options

- In person at the Bursar's Office cashier windows, first floor of Carrington Hall, 8:30 a.m. - 4:00 p.m., Monday through Friday. Methods of payment accepted are: cash, cashier's check, personal check, traveller's check, money order, and credit/debit card issued by American Express, Discover, and MasterCard.
- Mail to: Missouri State University, Bursar's Office, 901 S National, Springfield MO 65897 (checks only)
- Pay online with credit card by going to the Profile tab on **My Missouri State**. Online payments are posted to the account on the following business day; therefore, do not use this method if fees are due the same day payment is submitted.
- Use drop box at Bursar's Office (checks only), Carrington Hall 102, 7:00 a.m. - 9:00 p.m., Monday through Friday

### Refund Policy for Drops and Withdrawals

Students who withdraw from the University or drop a course may receive a partial refund of tuition (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 My Payment Plan are responsible for the amount of unpaid fees after the refund or re-assessment. For students who are recipients of Federal Title IV student aid, refunds will be made in accordance with all applicable federal regulations.

The date used in determining the refund of fees shall be the date the student completes the transaction online or submits an official withdrawal request to the Office of the Registrar or the postmark date of withdrawal requests submitted by mail. If a student drops or withdraws from a full semester length class prior to the ninth week, the refund shall be of follows:

- On or before the fifth day of the semester: 100% of Tuition
- Days 6 through 10 of the semester: 75% of Tuition
- Days 11 through 20 of the semester: 50% of Tuition
- Days 21 through 40 of the semester: 25% of Tuition
- After the 40th day of the semester: No refund
- Refunds for all other class lengths including the summer session are proportionate to the length of the above refund periods.

Student Services Fees are not refunded based on a percentage of the amount paid. Rather, students are responsible for the liable billing hours (i.e., the hours in which they remain enrolled.)

Students who drop courses during the Change of Schedule period will receive a credit on their account in accordance with the Required Student Fee Refund Schedule. Because courses are not supposed to be added after the Change of Schedule period, dropped courses and added courses (including section changes) 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 Office of the Registrar stating that the change was required or recommended by the department.

### Exceptions to the Fee Refund Policy

Exceptions to the Withdrawal and Change of Schedule refund policies must be approved by the Office of the Registrar and are generally granted only when a documented University error has occurred. Refund exceptions may also be granted when the deadline is missed by a few days due to documented exceptional circumstances that were beyond the control of the student (e.g. medical, death in the family, etc.). Requests for full refund of tuition and fees from registered students who did not attend the University will be considered. Appeals must be submitted in writing to the Office of Registrar, Carrington Hall, room 320, within one month of the withdrawal or change of schedule and must be accompanied by appropriate supporting documentation.

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 administrators of the online program 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.

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## Financial Aid

### Financial Aid Office Website

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 consisting of scholarships and grants. These awards complement the federal student aid programs, which include grants, loans, and work study. 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 students need to complete the Free Application for Federal Student Aid (FAFSA). An electronic application may be filed at <http://www.fafsa.ed.gov/>. This application requires information from the student's (and/or the student's parents) previous year's tax return and should be completed as soon as possible after January 1 and prior to March 31 of each year to determine the student's 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.

### Scholarships

To apply for University scholarships you must first apply for admission and be accepted to the University. Scholarships require students to be enrolled full-time (a minimum of 12 credit hours per semester). For a complete list of scholarships, criteria for selection, application process, and scholarship appeals, visit our web site at [www.missouristate.edu/financialaid](http://www.missouristate.edu/financialaid). All prospective students are encouraged to contact the Office of Student Financial Aid for information.

### Out-of-State Fee Programs for Freshmen and Transfer Students

The following programs are available: Continue the Tradition; and Out-of-State Fee Waiver/Midwest Student Exchange Program.

### Federal Financial Aid Programs

The following federal financial aid programs are available: Pell Grant; Supplemental Educational Opportunity Grant (SEOG); Work-Study; Perkins Loan; Subsidized Stafford Loan; Unsubsidized Stafford Loan; Federal Parent Loan (PLUS). 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.

### State Programs

The following state financial aid programs are available: Missouri Higher Education Academic Scholarship Program (Bright Flight); Access Missouri Financial Assistance Program; Missouri Teacher Education Scholarship.

## Other Types

### 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.

### 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 see the web site at [www.missouristate.edu/studentemp](http://www.missouristate.edu/studentemp).

### Graduate Assistantships

Graduate assistantships are available in many areas to assist students with expenses and to enhance learning while studying for advanced degrees. Graduate assistantships are offered in both academic and administrative areas and may involve teaching, research, and/or administrative responsibilities. 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, (417) 836-5335 or online at <http://graduate.missouristate.edu>.

### MSU 62 Fee Waiver Program

Missouri State University offers a special fee waiver program for adults who are 62 years of age or older and residents of Missouri. Eligible students may register for one class per semester and have the required student fees waived. However, the student must pay special course fees, required textbooks and supplies, and parking fees. Classes may be taken for credit or on an audit basis.

Participants in this program will be admitted to Missouri State University as nondegree-seeking students. Registration through the fee waiver program takes place only at a special registration program scheduled the Friday prior to the first day of classes for the fall and spring semester between the hours of 9:00 a.m. and 12:00 noon. Enrollment for courses is subject to "seats available" and having the required prerequisites. This fee waiver cannot be applied to intersession, special courses, off-campus, or online course offerings.

For additional information, please contact the Office of Adult and Veterans Student Services, Carrington Hall, room 314, (417) 836-6929.

### 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). The Veterans Certifying Official is located in Carrington Hall, Room 314. For more information please call (417) 836-5568 or email [VeteransServices@missouristate.edu](mailto:VeteransServices@missouristate.edu).

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## Housing

All single students under 21 years of age who have completed fewer than 30 hours of transferable credit 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 groundwork 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. A Student Housing Contract packet will be mailed to all new single freshman students under the age of 21, following admission, and to other students by request. Contracts must be submitted online and the security deposit paid before a reservation is complete.

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 Friday before classes begin for the fall semester, and on the Saturday 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; an option for meals to be served during breaks is available for Sunvilla Tower residents. Special arrangements may be made for students requiring housing during breaks for an additional charge, as space permits. Rates and policies are subject to change without notice.

Residence Life and Services offers a wide variety of accommodations and living environments. Detailed information about these facilities, including rates and policies, may be found at [reslife.missouristate.edu](http://reslife.missouristate.edu).

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Missouri State > Office of the Registrar > Undergraduate Catalog > Student Resources and Services

## Student Resources and Services

### Academic Advisement Center

[www.missouristate.edu/advising](http://www.missouristate.edu/advising)

The Academic Advisement Center assists students as they develop meaningful educational plans to help them achieve their goals. Advisors in the Academic Advisement Center advise undergraduates who are in the process of selecting majors. Students should visit the Center to declare or change majors. Individual appointments with academic advisors for undecided majors are available by calling 836-5258. Many services are offered to help students succeed at Missouri State, such as: a Transfer Advisor is available to smooth the transition for undecided 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 discuss various health careers; and a Majors Fair is sponsored each fall semester to help students research possible majors and minors.

### Achievement Center for Intercollegiate Athletics

[www.missouristate.edu/acia](http://www.missouristate.edu/acia)

The Center 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 academic requirements.

### Alumni Association

[www.alumni.missouristate.edu](http://www.alumni.missouristate.edu)

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 Association is to maintain current records of all alumni. At present, the alumni population includes more than 86,000 graduates and former students. The 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. Additionally, the Student Alumni Association (R.E.A.L. Bears) 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 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 Annual Fund.

### Bookstore, Missouri State

[www.missouristatebookstore.com](http://www.missouristatebookstore.com)

The University owned and operated Bookstore is where students can purchase textbooks as well as course related material, reference books, general reading books, academically priced hardware, software and peripherals, and a variety of official Missouri State apparel. Some of the services provided include a personalized list of the required textbooks for students' 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, and a full service Clinique counter.

Computer Connection is located within the Bookstore and is your source for all your educational technology needs, including Apple and Dell computers, iPods, printers, calculators, flash drives, software, cables, and ink cartridges, all academically priced. Be sure to ask about Student Select software from Microsoft and Adobe, available exclusively to our students. Call us at (417) 836-6143, or stop by the Bookstore today.

BearHouse Entertainment, located in the Plaster Student Union, provides a wide selection of CDs and DVDs, consumer electronics, wireless accessories, and a full line of video game consoles, accessories and software, because you cannot study all the time. Stop by or call (417) 836-4995 for all the new releases!

It's a Greek Thing is also located in the Plaster Student Union, and offers a full line of Greek related items including apparel, glassware, jewelry, paddles and accessories, id holders, scrapbooks, and much more. Ask about our individual and group special orders! Call us at (417) 836-GREK for all your Greek needs.

Convenience stores are affiliates of the Missouri State Bookstore located across campus. Cash, checks, ZipCard, all major credit/debit cards, Missouri State gift cards, as well as charges to your My Payment Plan account are all accepted.

Bear Necessities, located in the Plaster Student Union, provides snacks, school supplies, and sundry items for students. Stop in for your morning coffee, and a LaMar's Donut.

ETC, located in Hammons House, also provides snacks, school supplies, and sundry items for students.

Cash, checks, ZipCard, all major credit/debit cards, Missouri State gift cards, as well as charges to your My Payment Plan account are accepted at all of our locations.

### Bursar's Office

[www.missouristate.edu/bursar](http://www.missouristate.edu/bursar)

Account balances and ZipCard deposits are payable at the Bursar's office. MasterCard, Visa, Discover, and American Express cards are accepted at the Bursar's Office. Payments may also be made via the Internet using credit cards and E-Check. 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. Hours are 8:30 a.m. to 4:00 p.m. A drop box is available on the first floor of Carrington Hall for after hours and weekend payments.

#### **Campus Ministries Council**

<http://organizations.missouristate.edu/cmcc>

The University recognizes the important roles that the campus ministries serve in the lives of many University students. The campus ministries create opportunities for student spiritual expression and association with other students who share similar religious beliefs. The campus ministries have a strong social as well as spiritual component, and also provide opportunities for recreation and service. As an association, the Campus Ministries Council (CMC) represents the shared interest of the members in addressing common problems and opportunities as well as a united group in their relationship with the University. The University appreciates the partnership with the CMC in meeting the needs of students. The Vice President for Student Affairs, or a designee, regularly meets with the CMC and coordinates cooperative activities between the CMC and the University.

#### **Campus Recreation and Intramural Sports**

[www.missouristate.edu/recreation](http://www.missouristate.edu/recreation)

Campus Recreation fosters community, promotes physical fitness, and enhances wellness while enriching the university learning experience. Activities include intramural sports, fitness and wellness classes, and Outdoor Adventures workshops and trips. Student employment opportunities available include fitness instructors, intramural sports officials, outdoor trip guides, and office assistants. Internship and practicum opportunities are also available. See the Campus Recreation web site for details

#### **Career Center**

<http://careercenter.missouristate.edu>

The Career Center 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**

Through an individual appointment with a career resource specialist, 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 web-based 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.

IDS 120, 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.

#### **Cooperative Education (Co-Op)**

Once students reach a preliminary career decision, a Co-Op experience or internship offers an exciting way to determine if that career choice is the right one. Through Co-Op, students can receive academic credit, earn a salary, and gain valuable work experience in their major area. This work experience supplements what students are learning in the classroom and 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**

The Career Center 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.

The IDS 320 course, Job Search Preparation and Career/Life Planning, assists students in developing a career plan and investigating the world of work in terms of the student's goals. Students learn the dynamics of decision-making, how to acquire experience in their field of interest, and job search skills. The class prepares students to make a successful transition from school to work.

#### **Citizenship and Service-Learning**

[www.missouristate.edu/casl](http://www.missouristate.edu/casl)

Citizenship & Service-Learning (CASL) is a teaching and learning strategy that integrates meaningful community service with instruction and reflection to enrich the learning experience and strengthen communities. It is much more than simply community service. It is a hands-on approach to mastering subject material while fostering civic responsibility and is a valuable component of Missouri State's Public Affairs mission.

Two types of service-learning exist on campus:

**Component Service-Learning Course.** Through this option, students may register for a 300- or 500-level one-hour Service-Learning "component" course. This "component" course needs to be taken along with the appropriate "designate" course within the same semester (refer to attribute section of online course schedule). Regular tuition fees apply for this additional one-hour course. Students participate in 40 hours of unpaid service outside of class time with a Community Partner (nonprofit, government or public benefit institution). The work students perform is directly related to course learning objectives. Students also complete a reflection activity which enables them to make the connection between coursework, service, and community issues.

**Integrated Service-Learning Course.** Service-Learning can be an integral part of the classroom through an Integrated Service-Learning (ISL) course. All students in an ISL class participate in direct or indirect service with a Community Partner as one of the

course assignments, on par with an exam, research paper or other such project. Students are required to serve a minimum of 15 hours of unpaid service with an agency and often work in teams or groups. Experiences are designed to underscore course learning objectives. Students complete a reflection activity as well, (e.g., a journal, written/oral report, in class discussion or a combination of reflection activities).

A complete listing of Component and Integrated Service-Learning courses is available at the CASL Office and through the CASL web site.

**Benefits:** Service-Learning provides students with relevant work experience that can be included on résumés. It also offers participants an opportunity to test career choices, apply theories and concepts learned in class, make connections to the real world, and positively impact our community.

#### Community Service Opportunities

**Campus Volunteer Center**, <http://www.missouristate.edu/volunteer/>  
**Student Community Action Team**, <http://organizations.missouristate.edu/scat>

As a public affairs institution, Missouri State provides numerous opportunities and tools that enable each student, faculty, and staff member to make service a part of his or her life. The University creates a culture of service through numerous officially sponsored activities and organizations, by modeling the behavior of service, and by making connections between the subject content of courses and the needs of society as a whole. Service opportunities include: student organizations, Campus Volunteer Center (CVC), Student Community Action Team (SCAT), service learning opportunities. CVC serves as a clearinghouse of volunteer opportunities to assist Missouri State students, faculty, and staff as well as community members in becoming active participants in the Springfield community. SCAT promotes civic responsibility among college students through service that addresses priorities of the community.

#### Computer Services

<http://computerservices.missouristate.edu>

<http://helpdesk.missouristate.edu>

The University has a robust computing and networking environment to include more than 2,400 computers that are available for student use within 71 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 250 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-access labs.

Email mailboxes (with 10GB space per student) are available to all students at no cost. A web-based e-mail client (Outlook Live) makes this service available from anywhere on the Internet. Email mailboxes are retained by students upon graduation, with little change in service. Students are also eligible for 25GB of Window Live SkyDrive space for online document storage, in addition to Office Live Workspace and Live Spaces for document sharing, collaboration, and group discussions. SkyDrive, Workspace, and Spaces services are provided to each student on demand.

The campus high-speed data network is large and expanding. All networked computers are provided with 100MB or greater connectivity to the university network. Wireless connectivity is available in many areas across campus and is continually expanding to meet the growing needs of students. Access to the campus network is available via high speed internet or modem dial-in services. For more information view the Networking Services web site at <http://networking.missouristate.edu>.

#### BearPass Login

Students, faculty, and staff use a BearPass Login to access a variety of information via the My Missouri State web portal. Those who have never received a BearPass Login can obtain one by going to the My Missouri State web portal (<https://my.missouristate.edu/>) and clicking the "Get an Account" link. Those who have a BearPass Login but have forgotten the password can reset it by going to <https://cams.missouristate.edu/> and clicking "Change Your Password." For assistance, contact the Computer Services Help Desk at (417) 836-5891.

#### My Missouri State

The My Missouri State web portal (<https://my.missouristate.edu/>) allows students immediate access to their academic information via their BearPass Login. Information available includes: update of addresses and phone numbers, current and future schedules, grade reports, advising notes, registration, degree audits, transcript, holds, accounts receivable information, fee payment, and more. For questions regarding My Missouri State, please contact the Computer Services Help Desk at (417) 836-5891. For specific questions regarding student information, please contact the Office of the Registrar at (417) 836-5520.

#### CopyThis

[www.missouristate.edu/printing/CopyThis.htm](http://www.missouristate.edu/printing/CopyThis.htm)

Copy This is a full service copy center for students, 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). Macintosh and Gateway computers are ready for multimedia production. Fax services and a full selection of materials are also available.

#### Counseling and Testing Center

<http://counselingandtesting.missouristate.edu>

The primary goal of the Center is to promote the student's personal development and psychological well-being. 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. 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 Center adheres to the American Counseling Association (ACA), the American Psychological Association (APA), and the National Association of Social Workers (NASW) 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 available are described below:

- Assessment includes 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 between 8:00 a.m. and 4:00 p.m., Monday through Friday.

- Individuals or couples may work with a counselor/psychologist in order to identify, understand, and resolve personal and relationship difficulties.
- 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.
- Crisis intervention is provided to deal with situations which require immediate attention.
- Outreach includes 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.
- 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), the Miller Analogy Test (MAT), 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), the Scholastic Aptitude Test (SAT), and the Law School Admission Test (LSAT).

#### **Dean of Students**

[www.missouristate.edu/dos](http://www.missouristate.edu/dos)

The Dean of Students Office provides and supports a variety of programs and services designed to enhance each student's life. 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 contact the office. The Dean of Students Office suite includes the Associate Dean of Students, Disability Resource Center, and Student Conduct. Services provided by the office:

- Communicates emergency messages to students. Call (417) 836-5527; if after normal business hours, call Safety at (417) 836-5509
- Provides students with access to an attorney for consultation Wednesday mornings at 8:00 a.m. while classes are in session, provided the student makes an appointment 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.
- Develops and disseminates several non-academic policies including:
- Advertising, Distribution, Solicitation, and Facilities Usage Policy
- Annual Notice to Students of the Alcohol and Other Drug Abuse Prevention Program
- Code of Student Rights and Responsibilities
- Expressive Activity Policy
- Greek Social Governance Statement
- Social Event Risk Management Policy for Missouri State University Recognized Student Organizations
- Provides leadership and oversight for Baker Bookstore, Disability Resource Center, Student Conduct, Plaster Student Union, Residence Life and Services, and SODEXO Dining Services.

#### **Disability Resource Center**

[www.missouristate.edu/disability](http://www.missouristate.edu/disability)

Disability Resource Center (DRC) 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.

#### **English Language Institute**

[www.international.missouristate.edu/eli](http://www.international.missouristate.edu/eli)

The ELI is an intensive English program for students whose first language is not English. The focus of the ELI is to provide English language learners with skills for academic and career success. The ELI offers five levels of study (beginner through advanced) in core areas of writing, grammar, reading/vocabulary, listening strategies, and speaking skills, as well as optional spelling and pronunciation classes. With 25 to 27 hours of classroom instruction per week, students have the opportunity to prepare for the language challenges of the American university. Successful completion of the ELI satisfies the English proficiency requirement for admission to Missouri State University.

#### **Health and Wellness Center, Taylor**

<http://health.missouristate.edu>

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 prescription and over-the-counter items, diagnostic laboratory testing, radiological procedures and interpretations, and wellness programming which emphasizes positive lifestyle choices. Consultation services are also provided in orthopedics, internal medicine, gynecology, radiology, psychiatry, headache care, nutrition, diabetics, and smoking cessation. Students' household members may receive services at Taylor Health, including the pharmacy.

The Center also provides students with educational activities, programs, and resources on a variety of health and wellness 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. For more information about upcoming programs, contact the Student Wellness Office at Taylor Health and Wellness Center (417) 836-4045. Students who are interested in becoming involved in wellness activities and advising Taylor Health's administration on numerous issues are encouraged to join the Student Health Advisory Committee (SHAC). For more information about these programs, visit the web site.

#### **Intercollegiate Athletics**

<http://www.missouristatebears.com>

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(NCAA). As a member of various athletics conferences, Missouri State is committed to academic and athletic 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.

The University is a member of the NCAA. All sports participate in Division I of that association. The men's intercollegiate athletic program fields teams in baseball, basketball, football, golf, soccer, and swimming. Some athletic grants-in-aid are available in each sport. The women's intercollegiate athletic program offers competitive opportunities in basketball, cross country, field hockey, indoor track, golf, soccer, softball, swimming, outdoor track, and volleyball. Some athletic grants-in-aid are available in each sport.

#### **International Student Services**

<http://international.missouristate.edu>

International Student Services provides assistance and support to international students and visiting scholars. Services offered include recruitment, admission (undergraduate, graduate, and non-degree), transfer credit evaluation, orientation programs, special activity programming, and assistance with matters relating to immigration.

#### **KSMU Radio Station**

[www.ksmu.org](http://www.ksmu.org)

KSMU, located at 91.1 FM, is the region's National Public Radio (NPR) affiliate. KSMU operates six transmitters serving Springfield, Branson, West Plains, Mountain Grove, Joplin, and Neosho. The station broadcasts in-depth national and local news, classical, jazz, and eclectic music formats. The station provides training opportunities for students interested in broadcasting.

#### **Learning Diagnostic Clinic**

<http://psychology.missouristate.edu/ldc>

The Primary mission of the Learning Diagnostic Clinic (LDC) is to assist Missouri State University in complying with certain aspects of the Americans with Disabilities Act's (ADA) laws and guidelines. More specifically, the clinic reviews psychological/psychiatric documentation to determine appropriate academic accommodations for students who are currently enrolled at Missouri State University. The LDC serves students who are diagnosed as having a learning disability, psychological disorder, and/or a neurological disorder. This service is provided at no charge. A related goal is to provide an educational support service for those students with the ultimate goal of developing educate persons. Prospective students who need support services through the clinic need to first register with the Disability Resource Center, Plaster Student Union, room 405, (417) 836-4192.

#### **Library Services**

<http://library.missouristate.edu/meyer/systems>

The Duane G. Meyer Library, the Music Library, the Haseltine Library at Greenwood Laboratory School, and the Evans Library on the Mountain Grove Campus Provide over 2 million items including 896,000 accessioned volumes; current subscriptions to over 3,300 periodicals and newspapers; and extensive back files of journals and newspapers, many in microformat. Over 23,000 journals are available online with full-text. More than 926,000 state, federal, and United Nations documents are held as a result of 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. The Curriculum Resource Center provides special materials for future teachers.

The statewide MOBIUS system allows access to holdings of all cataloged materials in the member libraries. Direct patron borrowing of state-wide resources with delivery of materials in 3-4 days has greatly expanded access to all types of materials. Electronic access is provided to reference resources, course reserve materials and licensed commercial citation and full-text databases through the library homepage. Currently over 130 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 23,000 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.

The Duane G. Meyer Library includes 12 large and 11 small Group Study Rooms and 8 Research Carrels which are assigned to graduate students and faculty on a semester basis. Four classrooms, a coffee shop and lounge, computer lab, media production facilities and a wide variety of study spaces are available. There is wireless access throughout the Meyer Library. Meyer Library is open 100 hours a week. Librarians or full-time staff are available all of those hours. Meyer Library provides accessibility and services that include an access ramp, electronic door openers, and a TDD phone (417) 836-8795 in Assistive Technology Services. 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. A central feature of the Library and of the campus is the Jane A. Meyer Carillon with its complement of 48 bronze bells.

#### **Missouri State University Foundation**

[www.foundation.missouristate.edu](http://www.foundation.missouristate.edu)

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 \$174 million.

The Foundation offers a variety of annual giving programs that encourage 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 Annual Report.

#### **Multicultural Resource Center**

[www.missouristate.edu/MCulture](http://www.missouristate.edu/MCulture)

The Center 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 provides students access to diverse information on current issues, trends in the job market, and preparation for graduate or professional studies.

**Multicultural Student Services**  
[www.multicultural.missouristate.edu](http://www.multicultural.missouristate.edu)

The MSS Office provides academic, social, and cultural programs throughout the year. The Office provides an on-going focus on developing cultural competence, the importance of a multicultural educational experience and an appreciation for cultural diversity throughout the campus community. MSS also gathers and distributes information of interest to multicultural students and links them to other University activities, resources, and services. The staff is well equipped to meet the diverse needs of the student population and works to promote a more culturally inclusive campus environment.

**Ozarks Public Television**  
[www.optv.org](http://www.optv.org)

Ozarks Public Television is the region's Public Broadcasting Service (PBS) affiliate. OPT operates two transmitters, KOZK in Springfield and KOZJ in Joplin, which provide public television to Southwest Missouri, Northern Arkansas, Eastern Kansas and Eastern Oklahoma. The stations broadcast a mix of children's programs, PBS core programming, and locally produced series and documentaries. OPT provides broadcast and production services to University departments and offers training opportunities for students interested in broadcasting.

**Partners In Education**  
[www.missouristate.edu/ugp/10996.htm](http://www.missouristate.edu/ugp/10996.htm)

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 PIE 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 PIE.

**Plaster Sports Complex,**  
[www.missouristate.edu/psc](http://www.missouristate.edu/psc)

The Robert W. Plaster Sports Complex 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 football field with 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 University 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**  
[www.missouristate.edu/union](http://www.missouristate.edu/union)

The Robert W. Plaster Student Union builds a sense of community on the Campus and provides opportunities for student growth and development. It 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 student activities, surf the internet, socialize or catch up on studying. Services and activities are described below.

Conference Services is ready to assist with planning meetings, events, and conferences. The 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. The Information Center has information on University events, a lost and found department, and attendants available to assist with questions. Campus Recreation is the place to sign-up for intramural sports, fitness classes, and recreational workshops.

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

Level One Games Center has eight bowling lanes, billiard tables, table tennis, gaming systems, and several televisions. The Office of Fraternity and Sorority Life 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. The Office of Student Engagement provides leadership opportunities for involvement with campus-wide events such as Homecoming, New Student Festival, leadership workshops, Family Weekend, and provides resources for students wanting to be active on campus. The office also coordinates the operation of over 300 registered student organizations on campus. SOFAC (The Student Organization Funding Allocation Council) provides funding to registered student organizations for special projects or needs.

Restaurants provide a full range of meals. Retail Services include: Bear Necessities is a convenience store with items ranging from magazines, newspapers, photo processing, candy, to milk and bottled water. BearHouse Entertainment Center carries computers, CDs, DVDs, gaming systems and accessories. A ticket outlet for campus entertainment and sporting events is also available. CopyThis 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 Resource Center, Multicultural Resource Center, University 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.

**Registrar, Office of the**  
[www.missouristate.edu/registrar](http://www.missouristate.edu/registrar)

The Office of the Registrar is comprised of four specialty areas 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. This office maintains the student and course data systems used on campus, and annually produces the undergraduate catalog.

Degree Check maintains the system used to produce degree audits; processes 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.

Records 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; provides degree verifications, enrollment verifications, and a wide variety of reports for the University administration.

Registration coordinates and enforces 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 the semester schedule of classes on the web.

Veterans Services provides quality support services to students eligible to receive veterans educational benefits such as certifying enrollment, monitoring progress, conferring with the students, and ensuring that students are in compliance with federal and state laws governing educational benefits. A veteran may be eligible to receive benefits under various GI Bill Programs. When applying for educational benefits, it is essential that the veteran's status be known (Montgomery GI Bill: Active Duty, Reserves, REAP, Vocational Rehabilitation, Survivors or Dependents, or the Post 9/11 GI Bill). The veteran must be enrolled and pursuing an approved program of education or training to be eligible for benefits. Students who plan to attend the University using GI Bill benefits should be prepared to pay for their first semester. It can take 10-12 weeks for their claim to be processed and their first payment to arrive. Additional information including minimum grade and credit requirements, advice on the benefits, or application forms may be obtained by contacting the Veterans Certifying Official in Carrington Hall, room 315.

**Retention Services**

This Office 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.

**Safety and Transportation**  
[www.missouristate.edu/safetran](http://www.missouristate.edu/safetran)

Services provided by the staff of Safety and Transportation are: Safe Walk Program is available to supplement the shuttle service by escorting members of the campus community to and from locations within the confines of the campus seven days a week. Students should call (417) 836-5509 to obtain an escort. An officer will then be dispatched by radio to that location. Vehicle Operation and Parking Regulations are available at the Parking Administration Office, Transit Operations Center, 700 E. Elm. Any student who operates a motor vehicle on campus is responsible for being informed about the parking regulations. The Towing Policy states that vehicles which have been abandoned, are improperly parked, or have accumulated three or more unpaid parking tickets may be towed. Shuttle Service is available to 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.

**Standard, The**

The University's official student-run newspaper, The Standard, has provided University students, faculty and staff with vital news coverage since 1912. 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 Government Association**  
<http://sga.missouristate.edu>

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**  
<http://studentorganizations.missouristate.edu>

The Office of Student Engagement is dedicated to providing an environment where all students are empowered to be actively involved. We believe by enhancing the resources and development for students, student organizations, and advisors, we will provide opportunities to create memorable experiences that will complement the academic and public affairs mission of the university. We will provide programs that promote: the development of leaders, cultural understanding, intellectual growth, philanthropic spirit, social engagement, and service to others. The Office of Student Engagement is responsible for Leadership Programs, Greek Life, Student Programming (Homecoming, After Hours Late Night Programming, and the advisement of the Student Activities Council) and 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. There are currently over 270 student organizations registered on campus. A complete, up-to-date list, is available on the web site.

**Supplemental Instruction**  
[www.si.missouristate.edu](http://www.si.missouristate.edu)



Supplemental Instruction (SI) is a series of review sessions for students enrolled in historically difficult courses. SI is provided for all students who want to improve their understanding of course material and improve their grades. Attendance at sessions is voluntary. For students, it's a chance to get together with people in their class to compare notes, discuss important concepts, develop strategies for studying the subject, and to test themselves before the professor does, so that when he/she does, the will be ready. At each session, students will be guided through this material by an SI leader, a competent student who has previously taken the course. Please contact Michael Frizell, Director, for a more information and a list of courses currently offering SI.

#### **TRIO Programs**

<http://trio.missouristate.edu>

The Office of Postsecondary Education, Division of Higher Education Programs, under the guidance of the U.S. Department of Education, 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 potential first-generation college students for successful entry into, retention in, and completion of postsecondary education.

TRIO Student Support Services Program provides a variety of support services that are designed to improve students' academic performance and increase motivation towards the successful completion of postsecondary education, and facilitate transition from undergraduate to graduate education. The program currently serves 180 participants who are low-income, first-generation, or have a disability. Services provided include instruction in basic study skills, mentoring component, academic, financial, and personal counseling; admission into cultural events and activities; stipends based on program participation and assistance in obtaining financial aid; and assistance in admission and enrollment in graduate programs. All services are provided at no cost to participants. For more information, visit the TRIO Student Support Services website at <http://trio.missouristate.edu>.

The TRIO Upward Bound Program assists 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 at no cost to eligible students: tutoring and study skills; monthly Saturday workshops; ACT/SAT prep 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 local and national cultural attractions. Participants may also receive a stipend based on program participation. For more information, visit the TRIO Upward Bound Program web site at [www.missouristate.edu/upwardbound](http://www.missouristate.edu/upwardbound).

#### **Writing Center**

[www.writingcenter.missouristate.edu](http://www.writingcenter.missouristate.edu)

The Writing Center is a free academic support service providing members of the education community of Missouri State University a place to share work in progress with knowledgeable, attentive readers. The staff of trained writing consultants, all active writers, strives to empower individuals writing through personalized consultation for any project. Undergraduate and graduate students, staff, and faculty use the service to workshop papers for their academic courses, master's thesis, creative writing, speeches, presentations, course syllabi, and articles intended for publication.

#### **ZipCard**

[www.missouristate.edu/zip](http://www.missouristate.edu/zip)

The ZipCard is your official University identification card which should be kept 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. 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.

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First Edition  
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[University Policies](#)

[Academic Regulations](#)

[Degrees, Programs, and Requirements](#)

## University Regulations and Degrees, Programs, and Requirements

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First Edition  
published July 2011

[Missouri State](#) > [Office of the Registrar](#) > [Undergraduate Catalog](#) > [University Regulations and Degrees, Programs, and Requirements](#) > [University Policies](#)

## 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 referenced below. The complete University Policy Library is available at [www.missouristate.edu/policy](http://www.missouristate.edu/policy).

[Campus Law Enforcement Policy](#)

[Email Communications Policy](#)

[Equal Opportunity and Affirmative Action Policy](#)

[Family Education Rights and Privacy Act \(FERPA\)](#)

[Student Disability Accommodation Policy and Procedures](#)

[Student Rights and Responsibilities](#)

[University Rules for Speakers and Facilities Usage](#)

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[http://www.missouristate.edu/registrar/catalog/university\\_policies.html](http://www.missouristate.edu/registrar/catalog/university_policies.html)

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## Academic Regulations

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- Withdrawal Policy for Students Mobilized for Military Duty

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Academic Regulations > Academic Integrity Policies and Procedures

Complete Student Academic Integrity  
Policies and Procedures (from Office of  
the Provost)

## 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 at <http://www.missouristate.edu/academicintegrity>.

### Definitions

**Academic Integrity Council (AIC):** The 24-member Academic Integrity Council (AIC) consists of ten voting student members and ten voting faculty members, plus the Provost or designee, who is the non-voting Chair of the Council. In addition, the Dean of Students (or designee), the SGA Legislative Director for Academic Affairs, and an academic College Dean (or designee) serves as ex officio members (without voting privileges). The Council is charged with enforcing the Missouri State University academic integrity policy, including overseeing academic integrity proceedings. The Council is also responsible for organizing and conducting campus activities designed to educate members of the campus community on matters of academic integrity and the academic integrity policy, and promoting a campus-wide climate of 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 technology, materials, information, or study aids in any academic exercise (whether intentional or not).
- **Fabrication or other 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; "misconduct in research" refers to any violation of ethical guidelines for attributing credit and authorship in research endeavors, non-compliance with established research policies, 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 acknowledgement (whether intentional or not). 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, also constitutes plagiarism.
- **Facilitating academic dishonesty:** Assisting or attempting to assist another to violate any provision of this Academic Integrity Policy, whether or not that action is associated with any particular course, is considered academic dishonesty.

### Cell Phone Use in Testing Situations

Use of cell phones, similar communication devices, or any unauthorized electronic data storage device in testing situations, other than to receive University emergency notifications, may constitute a violation of the Academic Integrity Policy and lead to sanctions under the *Student Academic Integrity Policies and Procedures*.

### 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 Provost or designee) in the Office of the Provost, 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 instructor elects not to pursue sanctions, or if the reported allegation is

not associated with any particular course, the AIC Chair may 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.

### **Repeat Allegations and Academic Dishonesty Not Associated with Enrollment in a Course**

The Chair of the AIC will convene a panel to address repeated allegations of academic dishonesty that may accumulate against a particular student.

In addition, 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 at Missouri State University 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.

If the AIP finds convincing evidence of an attempted or actual act of academic dishonesty by a student, the panel may impose any of the following sanctions/recommendations:

- "XF" grades;
- denial of privilege to hold office in any student organization;
- denial of privilege to represent the University in any intercollegiate activity;
- required service to the University and/or required service to the community;
- recommendation to the Provost for suspension or expulsion;
- recommendation to the Provost that a degree already granted be revoked, even if all degree requirements are met.

### **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 as a sanction for the academic dishonesty, the instructor must send written notification within five calendar years to the Chair of the Academic Integrity Council, with a copy to the instructor's department head and dean, and in the case of a graduate student, with a copy to the Dean of the Graduate College. After five years, an instructor can no longer impose any direct sanction for an alleged infraction; however, alleged academic dishonesty may be reported to the AIC regardless of how much time has passed since the alleged act.

The Academic Integrity Council can at any time and at its discretion recommend to the Provost that a degree be revoked even if all degree requirements have been met, in cases where the academic dishonesty, including misconduct in research, is egregious and/or occurred multiple times. A recommendation to revoke a degree even if all degree requirements were met requires an affirmative vote of at least 14 of the 20 voting members of the Council. The Provost'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 Provost'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.

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[Missouri State](#) > [Office of the Registrar](#) > [Undergraduate Catalog](#) > [University Regulations and Degrees, Programs, and Requirements](#) > [Academic Regulations](#) > [Academic Renewal Policy](#)

## Academic Renewal Policy

### *Op3.04-2 Academic Renewal*

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 earning a degree at Missouri State or another institution.
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.
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 the Provost.

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Academic Regulations > Academic Status

## Academic Status

### *Op3.04-3 Academic Status*

The following policy is effective for the fall 2010 semester and future semesters and applies to undergraduate students based on their undergraduate grade point averages (GPA).\*

### Good Standing

A student who has both a cumulative Missouri State **and** a combined (Missouri State and transfer) GPA of at least 2.00 is considered to be in good standing. Students not in good standing will be placed on academic probation or suspension.

### Probation

Any student with a cumulative Missouri State **or** a combined GPA of less than 2.00 is on probation unless placed on academic suspension (see below).

The purpose of academic probation is to remind students that the quality of their cumulative academic work is unsatisfactory. Students on probation must have an advisor release prior to registering for classes. Additionally, students on probation may be ineligible for participation in organizations or activities and may be ineligible for financial aid. Students on probation are encouraged to take advantage of the resources offered by the University to ensure their academic success.

### Suspension

A student who enters a semester on academic probation and fails to earn a semester GPA of 2.00 or higher will be suspended. Additionally, a student who earns a semester GPA less than 1.00 and, as a result, has an Missouri State or combined GPA of less than 2.00, will be suspended unless the dean of the college of the student's major determines that there are circumstances which warrant an exception. Individual deans establish the process by which such exceptions will be considered.

After an initial suspension, students must remain out for at least one full semester (not including summer) to be eligible for reinstatement. Students who have been suspended two or more times must remain out for at least one full year prior to being eligible for reinstatement.

### Reinstatement

Reinstatement procedures are determined by the deans and the Office of Admissions. Information regarding the procedure is available from the Office of Admissions. Reinstatement is not an automatic process. Students must be approved for reinstatement by the dean of the college under which they plan to return.

*\*Students whose last semester of attendance was prior to fall 2010 should refer to the catalog in effect for that semester.*

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## Accelerated Masters Program

### *Op3.04-4 Accelerated Masters Program*

Students admitted into an approved Accelerated Masters Degree Program may have a limited number of 600-level or higher 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.

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## First Edition published July 2011

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[Change of Address Form \(.pdf\)](#)

## Address

### *Op3.04-5 Address*

Students shall verify that their addresses are correct at the time of registration either online or by reporting address changes to the Office of the Registrar.

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. Students are required to have a street address/PO Box number, city, state, and ZIP on the local and permanent addresses.

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.



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## Assessment Program

### *Op3.04-6 Assessment Program*

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 implements the University's assessment program and provides faculty with unique opportunities for enhancement of instruction and student learning.

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## Attendance Policy

### *Op3.04-7 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 judgment and is outlined as follows:

- A. 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.
- B. The student initiates the formal appeal process as follows:
  1. 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).
  2. 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:
    - a. 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 Office of the Registrar. If the grade change is in a course taken for graduate credit, the department head must also notify the Graduate College.
    - b. 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.
  3. 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:
    - a. 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.
    - b. 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.
    - c. The AAB is advisory only. The Board will forward all documentation and its recommendation to the Provost. Based upon those data, the Provost 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) and a continued financial obligation.**



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[Audit Form \(.pdf\)](#)

## Auditing a Course

### *Op3.04-8 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 Office of the Registrar to drop the student from the class. Such drops will be graded with a "W" 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 Office of the Registrar, Carrington Hall room 320 any time prior to the "W" grade deadline for that course. Students may not change from a credit basis to an audit basis or vice versa once the "W" grade deadline has ended.

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## University Certificate

### *Op3.04-9 Certificate, University*

The certificate is mailed to student's approximately three weeks after the end of the semester of completion. A hold 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 \$20 payable to Missouri State to the Office of the Registrar, ATTN: Degree Check Staff, Missouri State University, 901 S. National Ave, Springfield, MO 65897. The written request must include the student's name, student identification number, date of completion, mailing address, daytime phone number, signature, and exactly how the name is to be printed on the certificate.

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## Change of Schedule (Add/Drop)

*Op3.04-10 Change of Schedule (Add/Drop)*

### Policy

#### Adding a Class

Classes may be added prior to the beginning of the semester and during the Change of Schedule Period (first five days of fall or spring semesters; first two days of summer session.) Classes which have not yet begun (e.g., second block courses, short courses, independent study, etc.) may be added after the Change of Schedule Period has ended.

#### Dropping a Class

Classes dropped prior to the end of the Change of Schedule period will not appear on the transcript. Classes may be dropped with a "W" grade from the end of the Change of Schedule period until four weeks prior to the last day of full semester classes, after which time students may not drop. For all classes of shorter duration than a full semester, this deadline shall be set at the three-fourths mark of that class. A "W" grade indicates student withdrew from course without academic penalty.

Dropping *all* classes is considered a "withdrawal from the University." Refer to the "Withdrawal Policies and Procedures" section of catalog for more information.

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 continued financial obligation.

#### Section Changes

A section change is considered a drop and an add, and is treated as such in determining the refund or credit to be granted.

#### Procedures for Adding a Class or Changing Sections

If student does not have any holds that block registration, they may add a class or make a section change online through the My Missouri State system or in person at the Office of the Registrar, Carrington Hall, room 320, with appropriate identification. University athletes must process all registrations and Change of Schedules in the Achievement Center for Intercollegiate Athletics, Forsyth Athletic Center, room 239.

If a student has a hold which prevents using the web registration system, the hold will need to be cleared before initial registration can take place by contacting the appropriate office. Students who need to process a change of schedule can visit the Office of the Registrar in person, fax a signed registration form, or send an email to [registrar@missouristate.edu](mailto:registrar@missouristate.edu) from their University email account.

If permission is required as a course prerequisite, that permission must be granted by the department before the class can be added.

After the stated deadline to add a class, departmental approval will be required to add a class or change sections of a class. Student must go the department office which offers the class, obtain a "Registration/Change of Schedule Form" with the proper signature and department stamp, and take the completed form to the Office of the Registrar for processing.

#### Procedures for Dropping a Class

If student does not have any holds that block registration, classes may be dropped online through the My Missouri State system or in person at the Office of the Registrar with appropriate identification. No drops or withdrawals from the University are allowed after the stated deadline to drop a class. University athletes must process all registration and Change of Schedules in the Achievement Center for Intercollegiate Athletics, Forsyth Athletic Center, room 239.

Students who have a hold which prevents using the web registration system can visit the Office of the Registrar in person, fax a signed registration form, or send an email to [registrar@missouristate.edu](mailto:registrar@missouristate.edu) from their University email account.

**Please Note:** Dropping *all* classes is considered a "withdrawal from the University." Refer to the "Withdrawal Policies and Procedures" section of catalog for procedures.

Students should use the drop procedure judiciously as 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, athletic participation eligibility and immigration status for F-1 or J-1 students. Students dropping a class 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.



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## Class Disruption

### *Op3.04-11 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."

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## Classification

### *Op3.04-12 Classification*

Undergraduate degree-seeking students are classified according to the number of credit hours earned, as follows: freshmen = 0 – 29.99; sophomores = 30 – 59.99; juniors = 60 – 89.99; seniors = 90+. Other undergraduate classifications include precollege and nondegree seeking. Graduate classifications include graduate masters, graduate specialist, doctoral, and postbaccalaureate (nondegree seeking).

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[Commencement Web Site](#)

## Commencement

### *Op3.04-13 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 Office of the Registrar, Carrington Hall 320, 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 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/commencement](http://www.missouristate.edu/commencement).

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[Credit By Examination Web Site](#)

## Credit by Examination

### *Op3.04-14 Credit by Examination*

Missouri State University recognizes four Credit By Examination programs: Advanced Placement (AP); College Level Examination Program (CLEP); International Baccalaureate Program (IB); and Missouri State 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. Missouri State does not award credit in transfer for credit by examination granted by another institution. Students must request that original score reports be sent directly to the Office of Admissions to be considered for credit. The Missouri State Credit by Examination policy is subject to change. Please refer to the web site at: [www.missouristate.edu/admissions/credbyexam.htm](http://www.missouristate.edu/admissions/credbyexam.htm) for the complete current policy including minimum scores required for credit.

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## Credit Hours and Semester System

### *Op3.04-16 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.

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.

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[View Missouri State University's releases of graduations lists, dean's lists and scholarship lists](#)

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## Dean's List

*Op3.04-17 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.

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## Declaring or Changing a Major

*Op3.04-18 Declaring or Changing a Major*

If you are interested in declaring or changing a major, it is recommended that you first visit the department of the major to learn more about the program, including any admission requirements (if required).

- When you have confirmed your plans to declare or change a major, please contact the Academic Advisement Center in University Hall 109 to have the change processed on your record. It is recommended that you visit the office in person. The Academic Advisement Center will continue to accommodate phone and email requests from departmental advisors and representatives regarding major changes for students. If you are a newly admitted student and have not yet registered for classes, contact the Office of Admissions at (417) 836-5517 for major changes.
- If you wish to declare or change to a major or minor in the College of Business Administration, please contact the Business Advisement Center in Glass 106. It is recommended that you visit the office in person.
- If you wish to add a second major, you should contact the department of the major as indicated above.
- If you wish to add a minor, please visit the Academic Advisement Center in University Hall 109.

***If you have any questions about declaring or changing a major, contact the Academic Advisement Center at (417) 836-5258.***

### Admission to degree program:

Some majors have specific admission requirements. If you declare or change to a major with admission requirements, you will initially be placed in a "pre-major." When you have fulfilled all of the requirements for admission to the program, the department will instruct the Office of the Registrar to update your record to show that you are admitted to the major.

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[Substitution, Waiver, or Advised Course List Form \(.pdf\)](#)

[Change/Pre-Approval of Transfer Work Form \(.pdf\)](#)

## Degree Audits

Degree audits are designed to assist the student, advisor, and University in tracking student progress toward completion of all applicable degree requirements. 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 University approval.

All admitted and currently enrolled undergraduate degree seeking students may view their degree audit through the My Missouri system on the web site provided they have been assigned a BearPass Number.

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[Application to Degree Program Form \(.pdf\)](#)

## Degree Program

### *Op3.04-20 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.

**Fall 2009:** Students must be admitted to a degree program before completing 60 credit hours or a hold will be placed on their record and they will not be allowed to register. Students are required to complete GEP 101 in their first semester. Students are strongly encouraged to complete: GEP 101/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 130 or higher, and PED 100 within their first 30 hours, and are required to do so prior to earning 60 hours.

**Note policy change effective for spring 2010 registrations:** Students must be admitted to a degree program before completing **75 credit hours** or a hold will be placed on their record and they will not be allowed to register. Students are required to complete GEP 101 in their first semester. Students are strongly encouraged to complete: GEP 101/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 130 or higher, and PED 100 within their first 30 hours, and are required to do so prior to earning **75 hours**.

To be admitted to a program of study that has admission requirements, students should first contact their advisor and then the departmental office of the major/minor.

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## Office of the Registrar

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[Commencement](#)

[Diploma Name Policy](#)

[Request for Reissued Diploma](#)

### Diploma

*Op3.04-21 Diploma*

The diploma is mailed to students approximately eight weeks after the end of the semester of graduation. A hold 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.

Reissued diplomas may be ordered by sending a written request and a check or money order payable to Missouri State University in the amount of \$20 to the Office of the Registrar, Missouri State University, 901 S. National, Springfield, MO 65897. 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.

All reissued diplomas and/or certificates produced on or after August 28, 2005, will bear the name Missouri State University.

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## Dual Enrollment

*Op3.04-22 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 available on the Admissions Office web site.

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

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[Enrollment/Degree Verification Request](#)

## Enrollment Status

### *Op3.04-24 Enrollment Status*

Enrollment status may be reported to external agencies such as the National Student Clearinghouse. Audited classes are excluded when determining enrollment status. For official reporting purposes, Missouri State uses the following definitions:

**Full-Time.** 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.

**Half-Time.** 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.

**Less Than Half-Time.** Undergraduate students carrying less than 6 credit hours and graduate students carrying less than 5 credit hours during a fall or spring semester are considered less than half-time students. Undergraduate and graduate students carrying less than 3 credit hours during the summer session are considered less than half-time students.

### 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 the Disability Resource Center. 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 the Provost for disposition. If the request is approved, the Office of the Registrar shall ensure that enrollment status is accurately noted on the student's record and accurately reported.

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## Final Examination Period

### *Op3.04-25 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 or if they have more than three finals on the same day, 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.

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## Grade Appeals and Academic Grievances

### *Op3.04-28 Grade Appeal and Academic Grievances*

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 Academic Integrity Policies and Procedures and to the Student Academic Integrity Policies and Procedures document.

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 Office of the Registrar. 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 Provost, 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 Provost 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 Provost, 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 that are not made within one calendar year of receipt of grades must be submitted to the Office of the Provost. Those appeals with documented exceptional circumstances will be considered on a case-by-case basis by the Scholastic Standards and Revision of Records Committee, and the committee will make its recommendation to the Provost.

### **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 (e.g., an F resulting from failure to remove an Incomplete grade in the time allowed or failure to officially drop a course) rather than a faculty member's evaluation of performance in a course, the student's written appeal must be directed to the Office of the Provost within one calendar year of receipt of grade(s). Such appeals will be considered by the Scholastic Standards and Revision of Records Committee, and the Committee will make its recommendation to the Provost. This process should not be used for students appealing a grade of F or XF assigned due to academic dishonesty. Refer to Academic Integrity Policies and Procedures and to the Student Academic Integrity Policies and Procedures document.

### **Failure to Satisfy Academic Standards of University, College or Department**

The University's 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 Provost 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."

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[GPA Calculator](#)

## Grade Point Average

### *Op3.04-29 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 Office of the Registrar. 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 quality points earned by the total credit hours attempted. The semester grade point average is calculated by dividing the quality 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 600 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.

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## Grade Reports

*Op3.04-30 Grade Reports*

Mid-semester and final grade reports are produced each semester and are available online. While every course is eligible for mid-semester grading, only 100- and 200-level courses are required to have mid semester grades posted.

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[GPA Calculator](#)

[Faculty Grading Information](#)

## Grading and the Credit Point System

*Op3.04-31 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 (4.00): Outstanding work.** Outstanding achievement relative to the level necessary to meet course requirements. Performance was of the highest level. Excellence while meeting course objectives was sustained throughout the course. Not only was the student's performance clearly and significantly above satisfactory, it was also of an independent and creative nature.

**A- (3.70): Excellent work.** Excellent achievement relative to the level necessary to meet course requirements. Performance was clearly and significantly above satisfactory, and was creative and independent.

**B+ (3.30): Near excellent work.** Achievement was significantly above the level necessary to meet course requirements. Performance was clearly and significantly above satisfactory, and was creative and independent.

**B (3.00): Very good work.** Achievement significantly above the level necessary to meet course requirements. Performance was very good, although not of the highest level. Performance was clearly and significantly above satisfactory fulfillment of course requirements (For undergraduates: B = meritorious: For graduates B = adequate).

**B- (2.70): Good work.** Achievement at a level just above that necessary to meet course requirements. Performance was notable.

**C+ (2.30): Slightly above satisfactory work.** Achievement that meets the course requirements. Performance was slightly more than adequate.

**C (2.00): Satisfactory work.** Achievement that meets the course requirements. Performance was adequate, although marginal in quality (For undergraduates: C = adequate: For graduates: C = inadequate).

**C- (1.70): Slightly below satisfactory work.** Achievement that barely meets the course requirements. Performance has been slightly below satisfactory and was marginal in quality.

**D+ (1.30): Passing work.** Achievement below satisfactory in meeting course requirements. Student demonstrated below satisfactory achievement in meeting course objectives, yet fulfilled a sufficient enough portion of the course objectives that repeating the course is not necessary unless required by the academic unit.

**D (1.00): Minimum passing work.** Achievement barely worthy of credit. Student demonstrated unsatisfactory achievement in meeting course objectives, yet fulfilled a sufficient enough portion of the course objectives that repeating the course is not necessary unless required by the academic unit.

**F (0.00): Failed – no credit.** A failure to meet course requirements. The work of course objectives were either: 1) completed but not at a level of achievement that is worthy of credit, or 2) have not been completed and there was no agreement between the instructor and the student that the student would be awarded an "I" (incomplete).

**I (0.00): Incomplete.** Grade 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.")

**IP (0.00): In-Progress course.**

**NG (0.00): Grade Not Yet Available/Extended Course.** Grade assigned for extended course which has not yet ended.

**NP (0.00): Not Pass.** Student did not pass the course under the Pass/Not Pass policy.

**NR (0.00): Grade Not Yet Reported.** Grade not submitted by instructor on time.

**NV (0.00): No Value/Informational Entry.** Administrative notation used to designate course with a no value grade, such as enrollment tracking course.

**P (0.00): Pass.** Student passed the course under the pass/not pass system or received MSU Credit by Examination.

**V (0.00): Visitor.** Student enrolled in and attended the course as an auditor. No hours or points assigned.

**W (0.00): Withdrew (Prior to fall 2009 this grade was represented by an N).** Student withdrew from course without academic penalty.

**XF (0.00): Failure due to academic dishonesty.**

**XM (0.00): Academic Renewal Elected on MSU course.** Grades and hours removed from GPA calculation.

**XT (0.00): Academic Renewal Elected on transfer course.** Grades and hours removed from transfer GPA calculation.

**Z (0.00): Deferred grade.** Assigned only to students enrolled in 600-level or higher 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 a "W".

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[Intent to Graduate Form](#)

## Graduation

*Op3.04-32 Graduation*

All students must inform the University of their intent to graduate before or early in the semester of graduation. Students may submit their Intent to Graduate online through My Missouri State web site. For more information go to: [www.missouristate.edu/commencement](http://www.missouristate.edu/commencement).

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[Hold \(Encumbrance\) Codes and Contact Information](#)

## Holds

*Op3.04-23 Encumbrances/Holds*

A hold 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. Most holds will prevent a student from registering for upcoming semesters and the release of a student's transcript and diploma. [A complete listing of hold code definitions and office contact information is available online.](#)

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[Assignment of Incomplete Grade Form \(.pdf\)](#)

## Incomplete Grade

### *Op3.04-33 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, a "W" or "F" should be assigned according to regulations governing the assignments of such grades. A "W" grade can only be assigned if the student has 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 Office of the Registrar 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 online or send a Form to the Office of the Registrar for processing. The grade may be changed from an "I" grade or from an "F" grade to the appropriate grade earned. 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** 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 should 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.

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[Instructor Drop/Prerequisite Drop Form](#)

## Instructor Drop

### *Op3.04-34 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 Office of the Registrar.

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## Interession

Interession classes are considered to be part of the following semester for purposes of admission, financial aid, registration, overloads, grading, scholastic action, and graduation. Fall Interession is part of the Fall semester; Winter Interession is part of the Spring semester; and Summer Interession is part of the Summer Session.

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[Name Change Form \(.pdf\)](#)

## Name Change

### *Op3.04-35 Name Change*

Students are required to provide their official legal name at the time of application and to process official name changes while enrolled, as appropriate. Name change requests for applicants, current, and former students must be submitted in writing to the Office of the Registrar and will require documentation of the change. Requests may be made in person, via fax, or by mail. Mailed requests should be sent to: the Office of the Registrar, Room 320 Carrington Hall, Missouri State University, 901 S. National, Springfield, MO 65897.

Documentation generally consists of new driver's license, official state ID card, Social Security card, certified copy of marriage license, court order, dissolution decree, current passport or official proof of identity certified by U.S. embassy abroad or by the appropriate foreign embassy in the United States. Other forms of documentation may be considered on a case-by-case basis. When academic records are maintained on microfilm, the student's name cannot be updated on the microfilm. Students who attended Missouri State University before 1985 have microfilm records. A [name change form](#) is available online.

### **Student Name on Diploma and University Certificates**

The student name listed on a diploma or certificate must match the official name on file at the University, with the following exceptions:

- option of first name or initial;
- option of middle name or initial;
- inclusion of former or maiden name(s); and
- inclusion of proper capitalization and accentuation of name.

Students indicate the desired diploma name on the Intent to Graduate form (undergraduate students) or Application for Graduation form (graduates students); and the certificate name on the Notification of Completion form. If you have any questions regarding changing your name, please contact the Office of the Registrar at (417) 836-5520 or send an email to [registrar@missouristate.edu](mailto:registrar@missouristate.edu).

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[Overload Permission Form \(.pdf\)](#)

## Overload Permission

*Op3.04-36 Overload Permission*

Permission must be obtained for hours taken over the maximum allowed as per the student's level. Courses for which a student is enrolled on an audit basis are counted in hours for an overload.

### Undergraduate Students:

**Maximum\*:** 18 hours for fall or spring semesters. Maximum of 10 hours for summer sessions. Upon the recommendation of their advisors, 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 from the dean of their college.

**Obtain overload permission from:** Dean of college of student's major. If major is undecided, then Associate Provost for Student Development and Public Affairs.

### Graduate Students:

**Maximum\*:** 16 hours for fall or spring semesters. Maximum of 10 hours per summer sessions. Also, Postbaccalaureate students (excluding those seeking teacher certification) may not enroll in more than nine total hours of graduate-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.

### Precollege Students:

**Maximum\*:** Nine hours for fall or spring semesters; six hours for summer semester.

**Obtain overload permission from:** If enrolled in the high school based (dual credit) Program, obtain permission from The Extended Campus. If enrolled in the campus based (dual enrollment), obtain permission from the Associate Provost for Student Development and Public Affairs.

\* Hours for fall include fall intersession; hours for spring include winter intersession; hours for summer include summer intersession

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[Pass/Not Pass Permission Form \(.pdf\)](#)

## Pass/Not Pass Regulations

### *Op3.04-37 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 a passing grade in courses for which they were enrolled on a Pass/Not Pass basis are given a "P" grade; those failing will receive a grade of "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 Office of the Registrar, Carrington Hall 320, anytime prior to the "W" 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. 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 in which the student earned a D or F grade prior to Fall 2009.
4. The Pass/Not Pass option is not available to graduate students for graduate-level courses (600 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.

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## Prerequisites

### *Op3.04-38 Prerequisites*

The student is responsible for having the appropriate prerequisites prior to enrollment in a course. Prerequisites are indicated in the University Catalog and the web class schedule and will be enforced at the time of registration. 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.

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[Web Registration](#)

[Registration/Change of Schedule Form  
\(.pdf\)](#)

## Registration

### *Op3.04-39 Registration*

The University allows currently enrolled, admitted, and readmitted/reinstated students to register well in advance of the beginning of each semester. Students can check their registration status online. New students are informed of registration opportunities with admission materials. Mail and fax registration is available to evening and graduate students through the Adult/Commuter Student Services, The Extended Campus.

Students who are in good academic standing and plan to return under the same classification may be able to register without applying for readmission. Students on academic probation will be required to have advisement prior to enrolling. Students indebted to the University are 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 the instructor's official class list should contact the Office of the Registrar.

**Once enrolled, students are required to withdraw from their courses if they will not be able to attend. Failure to do so will result in failing grades and continued financial obligations. See "Withdrawal Policies and Procedures" section.**

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[Authorization to Repeat Form \(.pdf\)](#)

## Repeat Policy

### *Op3.04-40 Repeat Policy*

A student may repeat any of the courses that he or she has taken at Missouri State University. All attempts at the course and the grades earned (including those resulting in W, I, and Z) appear on the transcript. The grade from the most recent attempt at the course (though not an W, I, or Z) will be the one that counts in GPA calculations. For example, if a student takes the course four times and gets a D, B, C, and W, in that order, then the C would be their official grade that would be used when calculating the student's grade point average. Also, a course that has been repeated will only be counted once in the student's total credit hours earned.

This policy applies to course repeat attempts taken fall 2009 and subsequent semesters. When the most recent repeat attempt was taken prior to fall 2009, the policy published in the 2009-10 Undergraduate Catalog will be applied.

The repeat policy is applicable to transfer credit as well as credit earned at Missouri State. For example, if a student earns a C in a course at Missouri State and repeats an equivalent course at another institution, the C (D) will be removed from the calculation of the Missouri State GPA. The transfer grade, however, will be included only in the transfer and combined grade point averages. See Grade Equivalencies in the "Transfer Credit Policy" section of the catalog for further information.

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. The Office of the Registrar maintains the complete listing of course prefix and number changes and should be contacted for such questions.

Students should also be aware that many graduate and professional schools recalculate GPAs taking into account every grade that appears on a transcript.

Students who are receiving financial aid must consider the impact of repeating classes on their eligibility for financial aid for future semesters. While repeated courses are counted when determining a student's enrollment status and annual satisfactory progress, students who fail to progress toward graduation (i.e., by increasing total hours earned) may exhaust their aid eligibility prior to graduation.

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Commencement

## Scholastic Honors

### *Op3.04-41 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 undergraduate 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 follows:

- GPA of 3.50 -3.74 — Cum Laude
- GPA of 3.75 - 3.89 — Magna Cum Laude
- GPA of 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 undergraduate 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 follows:

- GPA of 3.40 -3.74 — Cum Laude
- GPA of 3.75 - 3.89 — Magna Cum Laude
- GPA of 3.90 - 4.00 — Summa Cum Laude

Students who meet the above GPA 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 Office of the Registrar, Carrington Hall 320, (417) 836-5520.

Refer to "[Dean's List](#)" section for further information regarding scholastic honors.

Office of the Registrar  
2011-2012 Undergraduate Catalog

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[Missouri State](#) > [Office of the Registrar](#) > [Undergraduate Catalog](#) > [University Regulations and Degrees, Programs, and Requirements](#) > [Academic Regulations](#) > Senior Permission for Graduate Credit

## Senior Permission for Graduate Credit

### *Op3.04-42 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 600-level or higher courses for graduate credit during the last two semesters of a baccalaureate program upon the recommendation of the head of the department in which the course is offered 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.

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Academic Regulations > Requesting a Transcript from Missouri State University to be Sent Elsewhere

[Transcript Legend](#)

[Transcript Request Form](#)

## Requesting a Transcript from Missouri State University to be Sent Elsewhere

*Op3.04-44 Transcript*

### Definition and Description

A transcript is a chronological listing of the student's academic record at Missouri State University printed on safety paper. An official transcript bears the University Seal and is mailed directly to another university or outside agency. If student is to receive the transcript, it is indicated unofficial or placed in a sealed envelope and may not be considered official by some agencies and institutions. All students are issued a transcript (stamped "Issued to Student") upon graduation. Additional information regarding transcripts is provided below.

- Transcripts will not reflect a term's GPA calculation and student's academic status until the end of the semester- typically the day after final grades are due.
- Transfer credit is awarded and posted to transcripts only for students who enroll at Missouri State subsequent to completing coursework at other institutions.
- Courses taken through the West Plains Campus prior to fall 1995 appear on this transcript as institution credit.
- Academic probations, suspensions, and disciplinary expulsions are recorded on the transcript.
- For information on how to change your name with the University, please see the Student Name Change Policy.

### Fees and Holds

**There is no charge for routine and reasonable transcript requests.**

A \$20 fee will be charged for transcripts or other documents sent via express or overnight mail within the continental U.S. The \$20 fee must be paid by check or money order made payable to Missouri State University and must accompany the transcript request form. An additional amount may be required when sending items outside of the country. Do not send cash, please.

Transcripts will not be released for students who have a University hold due to a financial-related obligation. Students may view their transcript online any time. Students with a hold may request an unofficial transcript from the Office of the Registrar.

### How to Request a Transcript

Transcript requests are typically processed the same day or the following business day upon receiving the request. The University is open Monday-Friday, except for weekends and holidays. If someone other than the student is to request and/or pick up a transcript, that person must have a signed note from the student stating that the student (student name) gives Missouri State authorization to release the transcript to them (their name). The requesting person must also provide the student's photo ID (or a photo copy of the student's ID) and a photo ID of himself or herself. The following options are available for requesting transcripts. Please call the Office of the Registrar at (417) 836-5520 if you have any questions regarding requesting a transcript.

#### Option 1

Online request is currently unavailable.

Order online (user ID required). If you do not have a user ID or if your transcript request requires special handling conditions such as overnight, fax, or pick-up at the Office of the Registrar, please see Option 2 below. Transcript requests made online by 4:00 p.m. on business days, are generally mailed the following business day.

#### Option 2

Print the , either in Microsoft Word or PDF format, and fax or mail the form to the Office of the Registrar. The fax number and mailing address are at the top of the form.

#### Option 3

Send a written request to: Transcripts, Office of the Registrar, Missouri State University, 901 S. National, Springfield, MO 65897. Please include the following information:

- student's full legal name and any former names
- student's student identification number and date of birth
- last semester of attendance at Missouri State (please indicate if you attended the West Plains campus)
- student's current address including day phone number
- address to which transcript is to be mailed
- student's signature to authorize the release of the transcript

#### Option 4



Request and pick up transcripts in the Office of the Registrar, Carrington Hall, Room 320, by completing a Transcript Request Form and presenting a photo identification.

### **Web Transcripts**

Student Academic Transcripts (unofficial) are available for viewing through [My Missouri State](#).

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Academic Regulations > Transfer Credit Policy

## Transfer Credit Policy

*Op3.04-45 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 "General Baccalaureate Degree Policies 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 Association for Biblical Higher Education (ABHE). 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.
- 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.
- 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 Provost for Undergraduate Programs.
- *not* awarded for remedial courses.
- 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.
- *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 "Degrees/Programs and Requirements" section of this catalog for requirements for the BAS degree.
- awarded and posted to transcripts only for students who enroll at Missouri State subsequent to completing coursework at other institutions.

### Graduate Transfer Credit

See the [Graduate Transfer Credit policy](#).

### 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 website at [www.missouristate.edu/transfer](http://www.missouristate.edu/transfer). 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 Provost for Undergraduate Education, 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.

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 passing grade 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. Through the 2009 summer semester, MSU used a straight A, B, C, D, F grading scale. Effective with the fall 2009 semester, a plus/minus scale will be used. For this reason, plus and minus grades are not transferred for courses taken *prior to* fall 2009 (so, for example, a B+ is converted to a B in calculating transfer grade point average); however, for courses taken at other institutions *during or after* the fall 2009 semester, +s and -s will be used in determining transfer grade point average. 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.

Courses for which transfer credit is awarded that are taken at colleges and universities not accredited by a regional accrediting agency or the ABHE 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

As indicated in the repeat policy section of the catalog, the repeat policy is changing for the fall 2009 semester. For courses taken prior to fall 2009, students were only allowed to repeat courses in which they earned a grade of D or F. The second grade replaced the first grade in the calculation of grade point average. Beginning with courses taken during or after the fall 2009 semester, students may repeat any course with no limit on the number of repetitions. Only the final grade will be used in the calculation of the student's grade point average. These same policies will be applied to transfer credit based on when courses were taken.

### 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,
- 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.

- 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 requirements. 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 Missouri Constitution Study Requirement (Senate Bill No. 4) described in the fourth paragraph below.

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 Provost for Undergraduate Education. 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 all 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 at Missouri State (unless they took an equivalent course at the other institution). Refer to the "General Education Program and Requirements" 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 and Experience**

Missouri State University grants credit for armed service education and training according to the recommendations of the American Council on Education (ACE) as stated in "A Guide to the Evaluation of Education Experiences in the Armed Services." No limit exists on credit awarded in this category. Credit is also awarded for military experience based on ACE guidelines. Credit for military experience is limited to a total of 30 credit hours and a maximum of 6 credit hours in any one discipline. For both education and experience, credit will be awarded in those disciplines that are substantially similar to courses and programs offered by MSU.

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 Missouri State 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 Missouri State 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 Missouri State Veteran Services.

### **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 University Articulation Officer (Associate Provost for Undergraduate Education). The final level of appeal within the institution is the Provost. 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 the Provost, or the Articulation Officer. The policy is subject to revision.

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Academic Regulations > Withdrawal Policies and Procedures

[Withdrawal Request form \(.pdf\)](#)

## Withdrawal Policies and Procedures

### *Op3.04-47 Withdrawal Policies and Procedures*

Students may withdraw from one or more of their courses online, or in person at the Office of the Registrar (Carrington 320 or by fax to 417-836-8776) Students who drop *all* their courses for a given semester who wish to return the following semester do not need to apply for readmission. The date the withdrawal is completed online or the date the official withdrawal request form is submitted to the Office of the Registrar (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 for the course. See the "Academic Calendar" on the web for specific deadline dates. The following is important information for students who withdraw from all of their classes during a semester:

**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.

**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 available at <http://calendar.missouristate.edu/>.

**Meal Plans.** Contact the Dining Services Office, Plaster Student Union 213, regarding their refund policy for meal plans which are independent of a housing contract.

**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.

**Refunds.** Refunds are credited to a student's account according to the policy indicated in the "Costs and fees" section of this catalog. Refunds will be issued by the Financial Services Office approximately four to six weeks following the withdrawal. Prior to issuing a refund check, the 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. For questions concerning financial obligations, please contact the Financial Services Office, Carrington Hall 113.

**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.

**Veterans.** Recipients of veterans benefits must report withdrawals to the Veterans Certifying Official, Office of the Registrar, Carrington Hall 320.

**ZipCard.** Students who have a ZipCard Debit Account must complete a ZipCard Debit Account Withdrawal form which is available at the ZipCard Office, Plaster Student Union room 128, (417) 836-8409. This form will cancel the account and authorize a refund of the account balance.

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Veterans Services

## Withdrawal Policy for Students Mobilized for Active Military Duty

*Op3.04-48 Withdrawal Policies for Students Mobilized for Military Duty*

### Withdrawal Procedure

Normal withdrawal procedures should be followed whenever possible. However, if students are unable to complete the necessary paperwork by coming into the Office of the Registrar, Carrington 320, or writing a letter of withdrawal, the University shall accept notification from the student or a family member. The Office of the Registrar will verify all notifications.

### Refunds

- Students will receive 100% of their tuition & fees when they officially withdraw from one or more classes 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 Veterans Certifying Official of their withdrawal and orders to report to duty.
- Graduate students who do not have assistantships and withdraw will be refunded 100% of their incidental fees.
- For those graduate students who have assistantships and withdraw, the unpaid balance of the stipend will be returned to the assistantship budget.
- Students shall receive a full refund for textbooks purchased at the University Bookstore and parking permits.
- The housing refund will be prorated based on the actual number of days room and board was used.
- Students who withdraw before a semester begins or during the first week of classes shall not receive a W or any grade on their transcript.
- Students withdrawing the second week of classes through the automatic "W" grade deadline (9th week) shall receive an "W" grade for each class in which they are enrolled in, except for completed intersession or first block courses.
- Students withdrawing or dropping individual classes after the automatic "W" grade deadline (9th week) shall receive an "W".

### Grading of Officially Processed Drops or Withdrawals

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, 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 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.

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General Education Program and Requirements

General Baccalaureate Degree Policies and Requirements

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Teacher Certification, Teacher Education Program, and Secondary Education Requirements

University Certificates

**Specialized Programs of Study**

Accelerated Masters Programs

Cooperative Program in Engineering

Individualized Major

Off-Campus Programs

Personalized Minor

Pre-Professional Programs

Study Away Programs

## Degrees, Programs, and Requirements

Candidates for all bachelors degree must satisfy the following degree requirements. In addition, the Bachelor of Arts, Bachelor of Music Education, and Bachelor of Science in Education have additional requirements as stated below.

- A. **General Education Program Requirements**
- B. **Major requirements.** Some majors require a specialized area of emphasis referred to as an "option". Majors which require an option are noted on the list of majors. Officially recognized options are listed on the transcript but are not printed on the diploma.
- C. **Minor requirements** (may be required for BA and BS degrees). Refer to the list of majors for those BA and BS majors that require completion of a minor.
- D. **General Baccalaureate Degree Requirements**
- E. Additional courses to bring total credit hours to at least 125. Some programs (mainly in the field of education) require more than 125. All degree requirements as specified by the department must be satisfied.

### Bachelor of Applied Science (BAS)

This 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. Two majors are currently offered; refer to the [William H. Darr School of Agriculture](#) and [Department of Technology and Construction Management](#).

### Bachelor of Arts (BA)

This degree denotes a broad background in the liberal arts. Specific requirements for the Bachelor of Arts degree are as follows:

- A. **Language Requirement:** All students pursuing a Bachelor of Arts degree must complete a 12 hour language requirement.
  1. **Option 1:** Courses selected within the Department of Modern and Classical Languages. Consult with the department regarding any exceptions or substitutions. There are two options:
    - a. Complete 12 hours in one language
    - b. Complete two 6 hour segments in two different languages
  2. **Option 2:** American Sign Language (ASL) courses. Consult with the Department of Communication Sciences and Disorders regarding any exceptions or substitutions.
- B. HST 103 World History I and HST 104 World History II (6 hours). Note: HST 103 or 104 or PHI 115 will also count toward the General Education Culture and Society Humanities Perspective.
- C. Philosophy (3 hours). Note: PHI 105 or PHI 110 may also count toward the General Education Self-Understanding Humanities Perspective.
- D. Fine Arts (6 hours) chosen from following lists:

**Restrictions on Double-Counting of Courses:** Courses used to meet Fine Arts requirement cannot be used to meet the General Education Program requirements. Refer to the department of major for any additional restrictions on double-counting of courses.

Art and Design Department: ART 200, 271, 272, 273, 274, 374, 378, 381, 382, 385, 386, 387, 472, 474, 475, 478, 479, 480, 483, 484, 485.

English Department: ENG 184, 200, 230, 287, 312, 330, 334, 336, 338, 340, 341, 350, 351, 354, 355, 360, 361, 362, 363, 365, 366, 380, 455, 485, 510, 512, 513, 514, 516, 517, 519, 533, 534, 536, 541, 543, 544, 546, 547, 548, 553, 557, 558, 559, 568, 580.

Modern and Classical Language Department: LLT 121, 180, 215, 225, 240, 271, 296, 321, 325, 326; FRN 381, 382, 412, 435 ; GRM 325, 400, 455, 465, 475, 485; GRK 301, 302, 498; LTN 450, 451, 460, 461, 470, 471; SPN 450, 460.

Music Department: MUS 239, 241, 345, 346.

Health, Physical Education and Recreation Department: PED 240.

Theatre and Dance Department: DAN 180; THE 101, 109, 541, 542, 543, 545, 547.

### Bachelor of Fine Arts (BFA)

This degree qualifies a student for professional work and/or graduate study.



### **Bachelor of Music (BMUS)**

This 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. Refer to the [Department of Music](#) for major requirements.

### **Bachelor of Music Education (BME)**

This degree provides a training program for music teachers. The holder of this degree is normally granted a certificate to teach in Missouri. Candidates for this degree must satisfy all Teacher Certification and Teacher Education Program requirements as described in the "[Teacher Certification, Teacher Education Program, and Secondary Education Requirements](#)" section of the catalog and in the [Department of Music](#) section of catalog.

### **Bachelor of Science (BS)**

This degree permits a high degree of specialization in certain fields.

### **Bachelor of Science in Athletic Training (BSAT)**

This degree permits a high degree of specialization in Athletic Training. Refer to the [Department of Sports Medicine and Athletic Training](#) for major requirements.

### **Bachelor of Science in Education (BSED)**

This degree provides a training program for teachers. The holder of this degree is normally granted a certificate to teach in Missouri. Candidates for this degree must satisfy all Teacher Certification, Teacher Education Program requirements as described in the "[Teacher Certification, Teacher Education Program, and Secondary Education Requirements](#)" section of the catalog.

### **Bachelor of Science in Nursing (BSN)**

This degree prepares registered nurses for increased professional responsibilities and leadership roles in health care. Refer to the [Department of Nursing](#) for major requirements.

### **Bachelor of Social Work (BSW)**

This degree prepares students for beginning generalist social work practice in the human-service field. Refer to the [School of Social Work](#) for major requirements.

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## General Education Program and Requirements

University Hall, room 115, Phone: (417) 836-8346, Fax: (417) 836-6372

Email: [StudentSuccess@missouristate.edu](mailto:StudentSuccess@missouristate.edu)

Website: <http://www.missouristate.edu/generaleducation>

Administrator: Professor Rachelle Darabi, Associate Provost for Student Development and Public Affairs

### General Information

The General Education Program of the University is administered by the Associate Provost for Student Development and Public Affairs. Appeals for exceptions to the General Education Program and/or requirements should be made to the Associate Provost for Student Development and Public Affairs. Students who are unsatisfied with the Associate Provost's decision may appeal to the Degrees Committee. Students who are unsatisfied with the Degrees Committee decision may appeal to the Deputy Provost.

### The Aim 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.

#### The 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
  - A. Writing and speaking with clarity and precision for diverse audiences
  - B. Making use of computers and other technological tools
  - C. 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
    - a. understanding of the unique shared ways of thinking, believing, and acting, developed by a people who live together over a long period of time
    - b. ability to conceptualize and trace the influences of community, institutions, and other constructions such as class, gender, and race
    - c. familiarity with the ways in which culture is expressed artistically, through literature, performance, and artifact
    - d. 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 Requirements (43-52 hours)

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. Note: Most students will complete the General Education program with 47 credit hours.

Students are strongly encouraged to complete their Basic Required Courses (GEP 101/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 130 or higher and PED 100) during their first 30 credit hours and must complete these courses before completing 75 credit 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 (14-21 hours)

1. First-Year Foundations, **GEP 101** (required of all entering students with less than 24 credit hours earned subsequent to high school graduation); or Freshman Honors Seminar, **UHC 110** (required for Honors College students) (0-2 hours)
2. Computers for Learning: **CIS 101/CSC 101** or **CSC 111\*** (0-3 hours)
3. Public Speaking: **COM 115** (3 hours)
4. Writing I: **ENG 110 \*\*** (3 hours)
5. Writing II: (3 hours) Select one of the following courses:  
**AGR 320**, Writing II: Writing in the Applied Sciences  
**ENG 210**, Writing II: Academic Writing  
**ENG 221**, Writing II: Writing for the Professions  
**ENG 310**, Writing II: Writing for Graduate and Professional Schools  
**ENG 321**, Writing II: Beginning Technical Writing  
**GLG 358**, Writing II: Reporting Geological Information  
**HST 210**, Writing II: Historical Inquiry  
**NUR 472**, Writing II: Nursing Research and Scholarly Writing  
**PED 310**, Writing II: Philosophical and Historical Issues in Physical Education, Recreation, and Sport  
**THE 210**, Writing II: Writing for Theatre
6. Mathematics: A **MTH course** numbered 130 or higher (3-5 hours)

7. Health and Well-Being: **PED 100\*\*\*** (2 hours)

*\*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. Contact the Computers for Learning Office, Kings Street Annex, room 216, (417) 836-6120, for information or visit the web site at: <http://learning.missouristate.edu/>*

*\*\* 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. Contact the English Department, Pummill Hall, room 301, (417) 836-5107 for more information.*

*\*\*\* 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 awarded transfer credit for PED 100. Refer to the "Transfer Credit Policy, Credit for Military Education and Experience" section of catalog for more detailed information.*

**B. Areas of Inquiry (23-25 hours)**

1. **Natural World (8-10 hours):** 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) Introduction to 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  
 CHM 160(4) General Chemistry I and CHM 161(1) General Chemistry I Laboratory\*

**Geography or Geology:**

GLG 110(4) Principles of Geology\*  
 GLG 171(4) Environmental Geology  
 GRY 135(4) Principles of Weather and Climate\*  
 GRY 142(4) Introductory Physical Geography\*

2. **Culture and Society (6 hours):** 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 273(3) Survey of the Art of Africa, Oceania, and the Americas  
 ART 274(3) Survey of Asian Art  
 ENG 200(3) Introduction to Literature  
 HST 103(3) World History to circa 1600 C.E.  
 HST 104(3) World History since 1600 C.E.  
 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) Principles of Sustainability  
 MED 120(3) Mass Media and Society  
 PLN 100(3) Understanding Cities  
 SOC 150(3) Introduction to Society

3. **Self-Understanding (9 hours):** 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) Exploring Our Human Ancestry  
 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:

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/American Studies (6 hours):**

1. HST 121(3 hours) Survey of the History of the United States to 1877 or HST 122(3) Survey of the History of the United States since 1877
2. PLS 101(3 hours) 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 (1 hour).

## 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 student may submit a request through the Office of the Registrar for a 42-hour block notation to 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.

### Basic Required Courses

- A. Computers for Learning: CIS/CSC 101 or CSC 111 (2-3 hours)
- B. Public Speaking: COM 115 (3 hours)
- C. Writing I: ENG 110 (3 hours)
- D. Writing II (3 hours)
- E. Mathematics: a MTH course numbered 130 or higher (3-5 hours)
- F. Health and Well-Being: PED 100 (2 hours)

### Areas of Inquiry

- A. Natural World (8-10 hours)
- B. Culture and Society/Humanities Perspective (3 hours)
- C. Culture and Society/Social Sciences Perspective (3 hours)
- D. Self-Understanding/Social/Behavioral Perspective (3 hours)
- E. Self-Understanding/Humanities Perspective (3 hours)
- F. Self-Understanding/Creativity and Vision Perspective (3 hours)

### American Studies

- A. American Democracy and Citizenship (3 hours)

## General Education Program Courses

### GEP 101 First-Year Foundations

General Education Course (Basic Required Courses). An integrative and interdisciplinary experience which addresses public affairs issues and individual choices promoting academic success. Required of all freshmen during their first semester. Honors students must substitute UHC 110 for this class. 2(2-0) F,S,Su



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## General Baccalaureate Degree Policies and Requirements

*Op3.04-27 General Baccalaureate Degree Policies and Requirements*

### General Degree Policies

#### Majors and Options

A major is an academic program of study. A major may be divided into options or emphasis areas that consist of a core area of study plus selected topical courses related to the specified option. The diploma will list the major and not the option. For example, a student majoring in Marketing with an option in Advertising and Promotion will have Marketing listed on the diploma. Both the major and the option title will be listed on the student transcript.

#### Multiple Degrees and/or Multiple Majors

Students may pursue multiple majors and/or degrees at the same time. The first major will determine the students' department and dean for various administrative purposes.

**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 multiple degrees and will receive multiple diplomas.

**Definition of multiple major:** A student who completes all requirements for two or more majors under the same degree in the same semester will be awarded one degree and will receive one diploma. If one or both of the majors is non-comprehensive and requires a minor, the other major will fulfill this requirement.

#### 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.

Courses completed for graduate credit cannot be applied toward an undergraduate degree program, nor can courses taken for undergraduate credit be applied toward a graduate degree program.

#### Subsequent Undergraduate Degree

**Definition of subsequent undergraduate degree:** A student who returns or transfers to the University to obtain a subsequent undergraduate degree after being awarded the first degree.

**General Education Requirements.** 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.** Such students must satisfy all requirements for a major that is in a different field of study from any previously earned major. Any minor requirements are waived for students who have earned a Bachelor's degree from a regionally accredited college or university. If the student chooses to pursue a minor, however, that minor may not be in the same field of study as any previously earned major or minor.

**Specific Degree Requirements and General Baccalaureate Degree Requirements.** Such students must satisfy all specific degree requirements and all general baccalaureate degree requirements.

#### Teacher Certification

A Bachelor of Science in Education degree may be granted without a recommendation for a teaching certificate if the graduate does not present evidence of good moral character as determined by the Professional Education Committee.

#### 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.

### Bachelors Degree Requirements

#### Catalog of Graduation

Students shall satisfy the General Education, General Baccalaureate Degree Requirements, and Scholastic Honors requirements in effect upon first enrollment as a degree seeking student at Missouri State. Major and minor requirements and other specific 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.

#### Constitution Study Requirement

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.

#### Credits and Grade Point Average Requirements

All candidates for any baccalaureate degree must meet the following minimum credits and grade point average requirements:

1. Completed a total of at least 125 semester hours of credit.
2. Completed 40 hours of upper division credit (courses numbered 300 and above.)
3. Attained at least a 2.00 GPA on all courses attempted at Missouri State.
4. Attained at least a 2.00 GPA on all college courses attempted both at Missouri State and in transfer.
5. Attained at least a 2.00 GPA on all Missouri State and transfer courses used to meet the General Education requirements.
6. Attained at least a 2.00 GPA on all courses attempted at Missouri State that are required in the major and all other courses bearing the prefix of the major\*.
7. Attained at least a 2.00 GPA on all courses attempted at Missouri State that are required in the minor and all other courses bearing the prefix of the minor\*.

\*Excluding those courses which are designated by the departments as not counting toward the major and/or 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. Attain at least a 2.50 GPA on all courses attempted at all colleges attended.
2. Attain at least a 2.50 GPA in the certificate subject area (major field of study).
3. Attain at least a 2.50 GPA in any additional certificate subject area.
4. Attain at least a 2.50 GPA in the professional education courses.
5. Have no grade lower than a "C" in all professional education courses

Note: Many majors and minors require GPA's higher than the above stated minimums for admission, graduation, or both. Such requirements are listed as a part of the major or minor requirements.

#### General Education Assessment Exam Requirement

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 senior year (96 hours completed) or junior year if the student will not be attending classes on the Springfield campus before graduation, and must be taken prior to graduation.

Information regarding this assessment exam may be obtained from the Center for Assessment or from our web site at [www.missouristate.edu](http://www.missouristate.edu) (keyword=assessment and exit exam).

#### Residence Requirements

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 Office of the Registrar 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, d) students who participate in a Missouri State study away or exchange program approved by the Office of International Programs, and e) students in the West Plains Campus completion degree programs.

#### 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 the Provost, 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 Program requirements should be made to the Associate Provost for Undergraduate Education, Carrington Hall 209. Students who are unsatisfied with the Associate Provost's decision may appeal to the Office of the Provost. Such appeals will be considered by the Degrees Committee.



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## Majors and Minors

### Majors

- Degree codes are in parenthesis.
- Majors that require a minor are noted.
- Option areas are in italics.

#### Accounting (BS)

**Agricultural Business (BS)** *Options: Agricultural Enterprise Management; Agricultural Finance and Management; Agricultural Marketing and Sales*

#### Agriculture Education (BSED)

**Agronomy** (*title changed to Natural Resources effective Fall 2011*)

#### Animal Science (BS)

**Anthropology (BA, BS)** *Minor Required.*

**Art (BFA)** *Options: Ceramics, Computer Animation, Digital Arts, Drawing, Metals/Jewelry, Painting, Photography, Printmaking, Sculpture*

#### Art and Design (BA, BSED)

**Art History (BA)** *Minor Required.*

#### Athletic Training (BSAT)

**Biology (BA, BS)** *Minor Required.*

**Biology (BS)** *Options: Environmental Biology and Evolution; Microbiology and Biotechnology; Wildlife Biology*

**Biology Education (BSED)** *Options: Categorical Science, Unified Science*

#### Business Education (BSED)

#### Cell and Molecular Biology (BS)

**Chemistry (BS)** *Minor Required.*

**Chemistry (BS)** *Options: Biochemistry, Graduate School, Industrial*

**Chemistry Education (BSED)** *Options: Categorical Science, Unified Science*

#### Child and Family Development (BS)

**Classics-Latin Concentration (BA)** *Minor Required.*

#### Classics-Latin Concentration (BSED)

#### Clinical Laboratory Sciences-Medical Technology (BS)

**Communication (BA, BS)** *Minor Required. Options: Communication Studies; Ethical Leadership; Health Communication; Intercultural Communication and Diversity; Interpersonal Communication; Organizational Communication; Rhetoric*

**Communication Sciences and Disorders (BS)** *Options: Audiology; Education of Deaf and Hard of Hearing; Speech-Language Pathology*

#### Computer Information Systems (BS)

**Computer Science (BS)** *Minor Required.*

### Minors

- Degree codes are in parenthesis.
- Minor degree code must match the major degree code. Example: student with a Bachelor of Arts (BA) major that requires a minor must select from those minors that are designated (BA).

#### Accounting (BA, BAS, BS)

#### Advertising and Promotion (BA, BAS, BFA, BS)

#### African American Studies (BA, BS, BSW)

#### Agricultural Business (BS)

#### Agriculture (BSED)

#### Agronomy (BS)

**Ancient Greek** (*title changed to Classics-Concentration in Ancient Greek effective Fall 2011*)

#### Animal Science (BS)

#### Anthropology (BA, BS, BSW)

#### Antiquities (BA, BS)

#### Art (BA, BS)

#### Art History (BA, BFA, BS, BSED)

#### Asian Studies (BA, BS)

#### Astronomy (BA, BS)

#### Biology (BA, BS, BSED)

#### Biomedical Sciences (BA, BS, BSAT, BSN)

#### Business Education (BSED)

#### Chemistry (BA, BS)

#### Child and Family Development (BA, BS, BSW)

#### Chinese (BA, BS)

#### Classics-Concentration in Ancient Greek (BA)

#### Classics-Latin Concentration (BA, BS, BSED)

#### Coaching (BA, BS, BSED)

#### Communication (BA, BS)

#### Community and Regional Planning (BS)

#### Computer Information Systems (BA, BAS, BS)

#### Computer Science (BA, BS)

#### Creative Writing (BA, BFA, BS)

#### Criminology (BA, BS, BSED, BSW)

#### Dance (BA, BS)

#### Design (BS)

#### Economics (BA, BS, BSED)

#### English (BA, BFA, BMUS, BS, BSED)

**Construction Management (BS)**

**Criminology (BA, BS)** *Minor Required.*

**Dance** (*See Theatre and Dance*)

**Design (BFA)** *Options: Graphic Design; Graphic Design and Illustration; Illustration*

**Dietetics (BS)**

**Early Childhood Education (BSED)**

**Earth Science Education (BSED)** *Options: Categorical Science, Unified Science*

**Economics (BA, BS)** *Minor Required.*

**Economics (BS)**

**Electronic Arts (BS)** *Minor Required. Options: Audio Studies, Computer Animation Studies, Multimedia Studies, Video Studies*

**Elementary Education (BSED)**

**English (BA)** *Minor Required. Options: Creative Writing, Literature*

**English (BSED)**

**Entertainment Management (BS)**

**Entrepreneurship (BS)**

**Environmental Plant Science (BS)** *Options: Horticulture, Crop Science*

**Exercise and Movement Science (BS)** *Options: Health Studies, Pre-Professional*

**Facility Management (BS)** *Options: Healthcare, Hospitality, Industrial/Production, Property Management*

**Family and Consumer Sciences (BSED)**

**Fashion Merchandising and Design (BS)** *Options: Fashion Design and Product Development; Fashion Merchandising and Management*

**Finance (BS)** *Options: Finance, Financial Planning, Real Estate*

**French (BA, BS)** *Minor Required.*

**French (BSED)**

**General Agriculture (BAS)**

**General Agriculture (BS)** *Options: Agricultural Communications, Agriculture*

**General Business (BS)**

**Geography (BA)** *Minor Required.*

**Geography (BS)** *Minor Required. Options: Cultural and Regional Geography; Environmental and Natural Resources; Geotourism*

**Geology (BS)** *Minor Required.*

**Geology (BS)**

**Geospatial Sciences (BS)**

**German (BA, BS)** *Minor Required.*

**German (BSED)**

**Gerontology (BS)**

**Global Studies (BA)** *Minor Required.*

**History (BA)** *Minor Required.*

**History (BSED)**

**Horticulture** (*title changed to Environmental Plant Science effective Fall 2011*)

**Hospitality and Restaurant Administration (BS)** *Options: Club Management; Food and Beverage; General Operations;*

**Entrepreneurial Studies (BS)**

**Entrepreneurship (BS)**

**Environmental Physics Technology (BS)**

**Environmental Sciences and Policy (BA, BS)**

**Equine Studies (BA, BS)**

**Ethical Leadership (BA, BS, BSED)**

**Ethics and Social Policy (BA, BFA, BS, BSED, BSW)**

**Exercise Biology (BS, BSAT)**

**Film Studies (BA, BS)**

**Finance (BA, BAS, BS)**

**Financial Planning (BA, BAS, BS)**

**Folklore (BA, BFA, BS, BSED)**

**French (BA, BS, BSED)**

**Gender Studies (BA, BS, BSED, BSN, BSW)**

**General Agriculture (BS)**

**General Business (BA, BAS, BS)**

**General Family and Consumer Sciences (BA, BS, BSED)**

**Geography (BA, BS, BSED)**

**Geology (BA, BS)**

**Geospatial Sciences (BS)**

**Geotourism (BA, BS)**

**German (BA, BS, BSED)**

**Gerontology (BA, BS, BSW)**

**Global Studies (BA, BS)**

**Health Care Management (BA, BS, BSN)**

**History (BA, BS, BSED, BSW)**

**Horticulture (BS)**

**Housing and Interior Design (BA, BS)**

**Human Resources Management/Industrial Relations (BA, BAS, BS)**

**Industrial Management (BA, BAS, BS)**

**Informatics (BS)**

**Information Technology Service Management (BA, BAS, BS)**

**International Management (BA, BAS, BS)**

**International Marketing (BA, BAS, BS)**

**International Relations (BA, BS)**

**Journalism (BA, BS)**

**Latin** (*title changed to Classics-Latin Concentration effective Fall 2011*)

**Latin American Studies (BA, BFA, BS, BSW)**

**Law and Society, The (BA, BS)**

**Leadership (BS)**

**Legal Studies in Business (BA, BAS, BS)**

**Library Science (BA, BFA, BS, BSED)**

**Linguistics (BA, BS, BSED)**

**Literacy (BSED)**

**Logistics and Supply Chain Management (BA, BAS, BS)**

**Management (BA, BAS, BS)**

**Marketing (BA, BAS, BFA, BS)**

*Lodging; Senior Living Management; Tourism*

**Housing and Interior Design** (title changed to Interior Design effective Fall 2011)

**Individualized** (BA, BS)

**Information Technology Service Management** (BS)

**Interior Design** (BS)

**Journalism** (BS) Minor Required. Options: Broadcast Journalism; Print and Internet Journalism

**Latin** (title changed to Classics-Latin Concentration effective Fall 2011)

**Logistics and Supply Chain Management** (BS)

**Management** (BS) Options: Administrative Management, Human Resources Management, International Business Administration, Operations Management

**Marketing** (BS) Options: Advertising and Promotion; Marketing Management; Marketing Research; Sales/Sales Management

**Mass Media** (BA, BS) Minor Required. Options: Film Studies, Media Studies

**Mass Media** (BS) Options: Digital Film Production, Media Production

**Mathematics** (BA) Minor Required.

**Mathematics** (BS, BSED)

**Mathematics** (BS) Minor Required. Options: Actuarial Mathematics, Applied Mathematics, General Mathematics, Statistics

**Middle School Education** (BSED) Options: Language Arts and Social Sciences; Language Arts and Mathematics; Language Arts and Science; Mathematics and Science; Mathematics and Social Science; Science and Social Sciences

**Music** (BA) Minor Required.

**Music** (BME) Options: Instrumental; Vocal/Choral

**Music** (BMUS) Options: Composition, Instrumental Performance, Jazz Performance, Keyboard Performance, Vocal Performance

**Musical Theatre** (BFA) Program Jointly Offered by Department of Music and Department of Theatre and Dance

**Natural Resources** (BS)

**Nursing/Generic 4-Year Program** (BSN)

**Nursing/Completion Program for Registered Nurses** (BSN)

**Philosophy** (BA, BS) Minor Required.

**Physical Education** (BSED)

**Physics** (BS) Minor Required.

**Physics Education** (BSED)

**Planning** (BS) Options: Community and Regional Planning; Tourism Planning and Development

**Political Science** (BA, BS) Minor Required.

**Professional Writing** (BA, BS) Minor Required.

**Psychology** (BA, BS) Minor Required.

**Public Relations** (BS) Minor Required.

**Radiography** (BS) Options: Education, Management, Science

**Recreation, Sport and Park Administration** (BS) Minor Required.

**Recreation, Sport and Park Administration** (BS)

**Religious Studies** (BA, BS) Minor Required.

**Respiratory Therapy** (BS) Options: Education, Management, Science

**Mass Media** (BA, BS)

**Mathematics** (BA, BS, BSED)

**Middle Eastern Studies** (BA, BS)

**Military Science** (BA, BS, BSED)

**Molecular Biology** (BS)

**Music** (BA, BS)

**Music** (BSED) options: Instrumental, Vocal

**Music Composition** (BA, BMUS, BS)

**Native American Studies** (BA, BFA, BS)

**Nutrition** (BA, BS, BSAT, BSN)

**Operations Management** (BS)

**Ozarks Studies** (BA, BFA, BS)

**Personalized Minor** (any degree)

**Philosophy** (BA, BFA, BS, BSED, BSW)

**Physics** (BS)

**Political Science** (BA, BS, BSED, BSW)

**Psychology** (BA, BS, BSED, BSW)

**Public Administration** (BA, BS, BSED, BSW)

**Public Law** (BA, BS, BSW)

**Real Estate** (BA, BAS, BS)

**Recording Arts** (BA, BMUS, BS)

**Recreation, Sport, and Park Administration** (BA, BS)

**Religious Studies** (BA, BS, BSED, BSW)

**Risk Management and Insurance** (BA, BAS, BS)

**Screenwriting** (BA, BFA, BS)

**Selling** (BA, BAS, BS)

**Sociology** (BA, BS, BSED, BSW)

**Spanish** (BA, BS, BSED)

**Sports Medicine** (BA, BAS, BFA, BME, BMUS, BS, BSED, BSN, BSW)

**Teaching English to Speakers of Other Language** (BSED)

**Technical Writing** (BA, BFA, BS)

**Theatre** (BA, BS)

**Web Application Development** (BA, BAS, BS)

**Writing** (BSED)

**Risk Management and Insurance (BS)**

**Socio-Political Communication (BS)**

**Social Work (BSW)**

**Sociology (BA, BS) *Minor Required.***

**Spanish (BA, BS) *Minor Required.***

**Spanish (BSED)**

**Special Education/Cross Categorical (BSED)**

**Speech and Theatre Education (BSED) *Options:***  
*Communication, Theatre*

**Technology Management (BAS)**

**Technology Management (BS) *Minor Required.***

**Theatre and Dance (BFA) *Options: Acting,***  
*Dance, Design/Technology/Stage Management*

**Theatre Studies (BA) *Minor Required.***

**Wildlife Conservation and Management (BS) Program Jointly**  
Offered by William H. Darr School of Agriculture and  
Department of Biology

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Degrees, Programs, and Requirements > Teacher Certification, Teacher Education Program and Secondary Education Requirements

## Teacher Certification, Teacher Education Program and Secondary Education Requirements

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.

**Associate Dean of College of Education:** TBA

**Secondary Education Director:** Denise Fredrick, Ph.D., 402 Hill Hall, Phone 836-6204

**Office of Student Services Director:** Scott K. Fiedler, M.S., 200 Hill Hall, Phone 836-5253

**Educational Field Experiences and Clinical Practice Coordinator:** Peggy Preston, M.S.Ed., 200 Hill Hall, Phone 836-5253

**Office of Teacher Certification Compliance Coordinator:** Scott K. Fiedler, M.S., 200 Hill Hall, Phone 836-8772

**Professional Education Advisement Center Coordinator:** Stephanie C. Marinec, M.S.Ed., 202 Hill Hall, Phone 836-5429

**Secondary Professional Education Advisement:** Denise Fredrick, Ph.D., 402 Hill Hall. Phone 836-6204 for appointment. Also see the individual departments for assignment to a program faculty advisor.

### 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 2011. 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.

### Transition Points and Professional Portfolio Component

All students desiring Missouri certification are required to meet a series of Transition Points that includes as one of the criteria submission of a professional portfolio. This portfolio will be assessed, evaluated, and monitored throughout the teacher education program with assistance and guidance from faculty. There are five distinct Transition Points that the student meets from entry to their education program to follow up post graduate training. Students meet three distinct portfolio checkpoints during the first three Transition Points: 1) culmination of the designated course: ELE 410, 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:

**A. 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:

1. 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 (Missouri State and transfer) GPA of 2.50 or above. Note: A 2.75 or above combined GPA is required for Elementary Education majors.
2. Completed EDC 150 or met equivalent competencies with a grade of "C" or better. Note: For Agriculture Education, Music Education, and Physical Education majors, competency is covered in major requirements.
3. Family Care Safety Registry report on file prior to any clinical experience placement (fee required). Contact College of Education Student Services Office, 200 Hill Hall. A small fee is charged for this report.

Note: The Department of Elementary and Secondary Education will require a FBI background check prior to issuing a certificate.

**B. 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 EDT 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:

1. A combined (both Missouri State and transfer) GPA of 2.50 or above. Note: A 2.75 or above combined GPA is required for Elementary Education majors.
2. A combined 2.50 major GPA (Missouri State and transfer) for subject specific 9-12 and K-12 programs. Note: A 2.75 major GPA (Missouri State and transfer) is required for Elementary Education majors and for Social Science (History) majors.
3. 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. 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.
4. Completed SEC 302, ELE 302, SPE 310, MUS 200, or PED 200 with a grade of "C" or higher.
5. Passed portfolio first checkpoint (except for Early Childhood Education and Elementary Education majors)
6. A Family Care Safety Registry report on file

Note: A student's application for admission to the Program is considered by the Professional Education Committee when the requirements listed above are complete. 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. Students should check with their advisor or department head for any additional program specific requirements.

**C. 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:

1. Been admitted to the Teacher Education Program
2. 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
3. A combined GPA of 2.50 or above for all college level course work completed. Note: A 2.75 or above combined GPA is required for Elementary Education majors.
4. Completed at least 15 hours, with a GPA of 2.50 or above, at Missouri State.
5. A combined GPA of 2.50 or above in major. Note: A combined GPA of 2.75 or above in major is required for Elementary Education majors and for Social Science (History) majors.
6. Passed portfolio second checkpoint
7. "C" or better in all Professional Education courses.
8. Current pre-professional liability insurance
9. Been recommended by the student's advisor. The recommendation shall be based upon the applicant's character, personality, and potential for teaching.
10. Been recommended by the department in which the student is completing an undergraduate major or seeking certification. For those students completing a degree which involves significant work in more than one department (i.e., Speech and Theatre Education) 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.
11. An additional fee of \$200 per 8-week placement is assessed for supervised teaching outside of service area.

**D. Requirements for Certification Recommendation:** To be recommended for an initial Missouri teaching certification, the student must have:

1. Successfully completed Supervised Teaching
2. 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.
3. A combined (Missouri State and transfer) GPA of 2.50 or above. Note: A combined GPA of 2.75 or above is required for Elementary Education majors.
4. Met the criteria established by the Missouri State Board of Education exit evaluation procedures (Praxis II: Subject Assessments Specialty Area Tests.)
5. Completed professional education courses with a combined GPA of 2.50 (Missouri State and transfer) and no grade lower than "C". Note: A combined GPA of 2.75 or above is required for Elementary Education majors.
6. A combined GPA of 2.50 (Missouri State and transfer) in the certificate subject area and for each additional area of endorsement. Note: A combined GPA of 2.75 or above is required for Elementary Education majors.
7. Passed final portfolio requirement

Note: The Department of Elementary and Secondary Education will require a FBI background check prior to issuing a certificate.

## 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 this 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 in Social Science requires a 2.75 GPA) 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.

- A. General Education Requirements - see "**General Education Program**" section of catalog (43-51 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 Computers for Learning waiver 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 and Music majors must refer to the department section of the 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 (25-30 hours):
    - a. SEC 302(4)
    - b. PSY 360(3)
    - c. EDC 350(3)
    - d. SPE 340(2)  
Note: 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 are listed in the department section within the Professional Education section of the major.  
Note: A teaching methods course is required for each area of certification.
    - g. Supervised Teaching (8-12): courses are listed in the department section within the Professional Education section of the major
  2. Additional required competencies or equivalent course(s) required for major
    - a. EDC 150(1)  
Note: For Agriculture Education, Music Education, and Physical Education majors, competency is covered in major requirements.
    - b. EDT 365(3)  
Note: For Agriculture Education, Mathematics, Music Education, Physical Education, and Technology Education majors, competency is covered in major requirements.
    - c. PSY/SFR 486(3)  
Note: For Mathematics, Music Education, Physical Education, and all science majors, competency is covered in major requirements.
- 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

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## University Certificates

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. Specific admission and program requirements are listed in the appropriate academic department section of the catalog. The following undergraduate certificate programs are currently offered:

- Conflict and Dispute Resolution (16 hours) [Department of Communication](#)
- Entrepreneurship (15 hours) [Department of Management](#)
- Geographic Information Sciences (18 hours) [Department of Geography, Geology, and Planning](#)
- Manufacturing Management (12 hours) [Department of Technology and Construction Management](#)
- Planning and Development (13 hours) [Department of Geography, Geology, and Planning](#)
- Writing for Television and Film (12 hours) [Department of Media, Journalism & Film](#)

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## Accelerated Masters Programs

The Accelerated Masters degree option provides a transition that enables outstanding Missouri State undergraduate students to begin taking graduate course work in their junior or senior year and thus combine components of the undergraduate and graduate curriculum. Eligible undergraduate students may apply for preliminary acceptance into an accelerated masters program after the specific program admission requirements have been met. If accepted, a maximum of 12 credit hours of approved graduate level courses may be designated as "Mixed Credit" and count towards both the undergraduate and graduate degree programs as specified in the accelerated program 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 graduate advisor or the Graduate College in Carrington Hall, room 306.

Under the Accelerated Masters degree option, a student will be fully admitted to the Graduate College upon completion of the baccalaureate degree. Students interested in the Accelerated Masters opportunity should review the admission requirements in the [Graduate Catalog](#) and contact their advisor. Graduate programs offering an accelerated option are:

- Accountancy (MACC)
- Applied Anthropology (MS)
- Biology (MS)
- Business Administration (MBA)
- Cell and Molecular Biology (MS)
- Chemistry (MS)
- Communication (MA)
- Communication Sciences and Disorders, with option in Education of Deaf and Hard of Hearing (MS)
- Criminology (MS)
- Early Childhood and Family Development (MS)
- Elementary Education (MSED)
- Geospatial Sciences in Geography and Geology (MS)
- Global Studies (MGS)
- Health Administration (MHA)
- History (MA)
- Literacy (MSED)
- Materials Science (MS)
- Mathematics (MS)
- Nursing (MSN)
- Plant Science (MS)
- Project Management (MS)
- Public Administration (MPA)
- Public Health (MPH)
- Religious Studies (MA)
- Special Education, with option in Autism Spectrum Disorders (MSED)

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## Cooperative Program in Engineering

Missouri State University and Missouri University of Science & Technology cooperate in two engineering programs on the Missouri State University campus – Civil and Electrical Engineering. The degrees are granted by the Missouri University of Science and Technology in cooperation with Missouri State University. Most of the courses required for graduation will be offered on the Missouri State University campus. The Cooperative Engineering Program is being developed to meet all ABET accreditation standards. Refer to the [Engineering Program web site](#) for more information.

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## Off-Campus 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 interactive video technology (BearNet), or are 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, Neosho, Nevada, and West Plains.

All Missouri State University policies for students, courses, and programs are applicable, regardless of location. The following programs of study may be completed at the designated off-campus location:

### Missouri State University-West Plains Campus, West Plains, MO

Child and Family Development (BS)  
Elementary Education (BSED)  
General Agriculture (BAS)  
General Business (BS)  
Technology Management (BAS)  
Master of Business Administration (MBA)

### Missouri State University Joplin Graduate Center, Missouri Southern State University Campus, Joplin, MO

Elementary Education (MSED)  
Master of Accountancy (MACC)  
Master of Arts in Teaching (MAT)  
Master of Business Administration (MBA)  
Master of Social Work (MSW)

### Nevada Telecenter, Nevada, MO

Master of Business Administration (MBA)

### Nelson Education Center, Lebanon, MO

Master of Business Administration (MBA)

### Missouri State University Branch Campus in Dalian, China – located on the Liaoning Normal University campus

General Business (BS)

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[Personalized Minor Form \(.pdf\)](#)

## 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 Office of the Registrar, Carrington Hall, room 320.

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Office of the Registrar  
2011-2012 Undergraduate Catalog

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## 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, the Department of Physics, Astronomy and Materials Science, and the [collaborative Engineering Program](#) share student advisement for all pre-engineering areas. Most students select a major in one of the two departments or continue on with our collaborative Engineering Program. Contact either department or the Engineering Office, Kemper Hall, room 226, 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 Academic Advisement Center, University Hall, room 109 or visit the web site at: [www.missouristate.edu/prehealth](http://www.missouristate.edu/prehealth).

**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 Academic 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. For more information, visit the web site at [www.missouristate.edu/prelaw](http://www.missouristate.edu/prelaw).

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Missouri State > Office of the Registrar > Undergraduate Catalog > University Regulations and Degrees, Programs, and Requirements > Degrees, Programs, and Requirements > Study Away Programs

## Study Away Programs

### Interim Director: Dr. Elizabeth Strong

Jim D. Morris Center for Continuing Education, 301 S. Jefferson, Suite 403, Phone: (417) 836-6368; Fax: (417) 836-6146

Email: [StudyAway@missouristate.edu](mailto:StudyAway@missouristate.edu)

Web Site: <http://international.missouristate.edu/studyaway/>

Students enrolled in these programs on a full-time basis are eligible to apply for all federal, state, and university financial aid.

### 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 live and study in London, England, and receive credit directly from Missouri State for MLP courses. Since the MLP is administered by CAPA, a third party provider, students may also register for those courses which are transferred to a student's record using the same process as other study away transfer credits. 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 Exchanges

The University participates in reciprocal student exchange programs with the University of Ballarat, Victoria; and University of Tasmania, Hobart. These locations offer students a relaxed lifestyle with cosmopolitan cultural diversity and breathtaking natural environments. Ballarat is located in Southeast Australia near Melbourne. It is a modern university with over 130 years of tradition. Hobart is the capital of the Island of Tasmania and is Australia's second oldest city. Through these programs, students pay Missouri State tuition and fees to study for a semester or a year in Australia or Tasmania. Both universities offer a diverse range coursework across the curriculum, with a strong focus in the sciences. Transfer of credit is arranged through the Study Away Programs office and financial aid can apply to the cost of tuition and fees.

### France Exchange

The University enjoys an 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. Students who are not fluent in French may choose to study on the campus in Vichy, France.

### Germany Exchange

The University participates in an 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 Study Away Programs office. 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.

### International Student Exchange Program (ISEP)

The International Student Exchange Program (ISEP) is a non-profit network of 300 member institutions in 42 different countries cooperating to provide affordable international educational experiences for a diverse student population. 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 summer, semester, and year-long study in a variety of academic fields, offering courses taught in English, as well as other foreign languages. Because of the flexibility in location, degree field, and languages offered, over 2,600 students worldwide participate in the ISEP program annually. Transfer of credit is arranged through the Study Away Programs office and financial aid can be applied toward Missouri State fees.

### Short-Term Study Programs, Including Summer Intensive Language Programs

Missouri State professors offer a variety of options for students to participate in short-term (2-5 weeks) programs during the summer, between spring and fall semesters, or during the winter intersession (early January). Some of these programs are "total immersion" programs where students study with native speakers and live with host families. The programs vary from year to year. Previous Missouri State short term study programs have included: Spain, Greece, Mexico, China, Russia, Denmark, France, Jordan, Ecuador, Jamaica, and Africa.

### National Student Exchange (NSE)

The National Student Exchange provides students the opportunity to study at one of more than 180 member campuses across the United States, its territories, and Canada. 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 Study Away Programs office. Coursework is offered across the curriculum.

### Study in China Program

The purpose of the Missouri State University Study in China Program is to increase cultural and educational exchanges and to promote friendship and understanding between the United States and China. Missouri State University offers two major opportunities for students to study in China with or without a Chinese language requirement. Offered through the Office of the Vice President for Research and Economic Development, the Study in China Program allows students to either choose to go to Dalian or Qingdao, China. There are a variety of program options that have been developed to address the diverse needs of students and their academic focus. Either program is very inexpensive and offers tremendous language and cultural experiences, and all credits will transfer to Missouri State University. Students in good standing who are enrolled in these programs on a full-time basis are eligible to apply for all federal, state and university financial aid. For more information visit the [China Programs web site](#).

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters

## College of Arts and Letters

Dean: Professor Carey H. Adams, Ph.D.

Associate Dean: Associate Professor Madeleine Hooper, Ph.D.

Office: Craig Hall, Room 106  
Phone: (417) 836-5247, Fax: (417) 836-6940  
Web Site: <http://coal.missouristate.edu>

### Academic Units

- [Department of Art and Design](#)
- [Department of Communication](#)
- [Department of English](#)
- [Linguistics Program](#)
- [Department of Media, Journalism & Film](#)
- [Department of Modern and Classical Languages](#)
- [Department of Music](#)
- [Department of Theatre and Dance](#)

### Centers for Research and Service

#### Center for Arts in the Schools

As the educational outreach program of Juanita K. Hammons Hall for the Performing Arts, the Center for Arts in the Schools offers a variety of educational events for students, teachers and community members. Programs include performances for K-12 students, master classes and workshops, pre- and post-performance activities, and professional development opportunities for teachers that model strategies for arts integration across the curriculum. This partnership between Hammons Hall, the Missouri State University College of Arts and Letters and Springfield Public Schools was established in 1995, and is a member of the Partners in Education program of the John F. Kennedy Center for the Performing Arts.

#### Center for Dispute Resolution

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 conflict management and alternative dispute resolution, a speakers bureau, and customized training, workshops, and technical assistance in mediation and conflict management for individuals, schools, government agencies, businesses, and nonprofit organizations. The CDR has pioneered a number of unique programs including victim-offender mediation programs in southwest Missouri, the Dispute Resolution Network of the Ozarks, intensive mediation trainings each year in collaboration with the Alternative Dispute Resolution Program at the Washington University School of Law, educational programs and resources for high-conflict parents and their children, programs on school conflict and bullying, and programs to address mother/daughter and parent/child conflicts.

#### Missouri Fine Arts Academy

The Academy is a three-week residential program for about 150 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; and to provide leadership in curriculum development, teacher training, and the development of special materials and teaching strategies that employ interdisciplinary arts instruction to improve education within artistic disciplines and the wider curriculum. 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.

#### Ozarks Studies Institute

The 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. 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 publishes *OzarksWatch* magazine; supports the Ozarks Studies Program and academic minor; and sponsors a major annual festival, the Ozarks Celebration, as well as speakers, professional conferences, and workshops.

#### Writers Hall of Fame® of America



The Writers Hall of Fame® of America began in Springfield, Missouri, in 1994, and at the core of its existence is a common passion – the joy of writing. With grassroots activities such as writing camps, scholarships, contests, and partnerships in education, the Writers Hall of Fame® of America remains true to its goal of encouraging an interest in writers young and old. Each year the Writers Hall of Fame® of America holds an induction ceremony, celebrating the works and lives of those who have made significant contributions to the art of writing. Headquartered in Springfield, Missouri, the Writers Hall of Fame® of America was founded in 1994 to foster an interest in writing among people of all ages. The organization's mission is three-fold: (1) to recognize those who made major contributions to writing (2) to stimulate interest in writing among young people and (3) to promote lifelong writing.

## School of Communication Studies

The School of Communication Studies encompasses the Department of Communication and Department of 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.

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Department of Art and Design

## Department of Art and Design

Ellis Hall, Room 308, Phone: (417) 836-5110, Fax: (417) 836-6055  
Email: [ArtandDesign@missouristate.edu](mailto:ArtandDesign@missouristate.edu)  
Website: <http://art.missouristate.edu>  
Department Head: Professor Wade S. Thompson, M.F.A.

### Faculty (as of July 15, 2011)

**Professors:** Keith A. Ekstam, M.F.A.; Billie Follensbee, Ph.D.; Judith Fowler, M.F.A.; Sharon R. Harper, M.F.A.; Cedimir Kostovic, M.F.A.; Sarah Perkins, M.F.A.; Eric Pervuhkin, M.F.A.; Gwen Walstrand, M.F.A.; Bruce West, M.F.A.; Vonda Yarbbery, M.F.A.

**Associate Professors:** Jerry Hatch, M.F.A.; Marcus Howell M.F.A.; Kevin Hughes, M.F.A.; Catherine J. Jolivet, Ph.D.; Sean Lyman, M.F.A.; Maria Michalczyk-Lillich, M.F.A.; Duat Vu, M.F.A.; Steve Willis, Ph.D.; Rebecca Ruige Xu, M.F.A.

**Assistant Professors:** Jimmie Allen, M.F.A.; Jacek Fraczak, M.F.A.; Mitzi Kirkland-Ives, Ph.D.; Elizabeth Snipes, M.F.A.

**Senior Instructor:** Iwona Duszek, M.F.A.

**Instructor:** Robin Lowe, M.F.A.

**Emeritus Professors:** Jay H. Adams, M.S.; Bill H. Armstrong, M.F.A.; Alan H. Brown, M.F.A.; John Careggio, M.F.A.; Dwaine Crigger, M.F.A.; Roman Duszek, M.F.A.; Emma Lane Elkins, M.F.A.; Susanne Ettinger, B.F.A.; Rodney S. Frew, M.F.A.; Tom Kinsey, M.Ed.; David Quick, Ph.D.; Bill Senter, M.A.; Dianne Strickland, Ph.D.; Hugh Yorty, M.F.A.

### Accreditation

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.

### Fine Arts Courses

Fine Arts courses are available. Refer to the Bachelor of Arts degree requirements in the specific [Degrees, Programs and Requirements](#) section of the catalog for a listing of the courses.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

**General Education Requirements/Restrictions:** 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, 271, 272, 273, or 274 toward their General Education requirements. Candidates for a Bachelor of Science in Education degree with a major in Art and Design are required to take ART 271 or 274 and may count this course toward their General Education requirements.

**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.

**Admission Requirements for all Majors:** Complete the 12 hours of Foundations courses, ART 100, 101, 115, 215 (only required of majors in Art, Art and Design, and Design); complete any additional admission requirements for selected major (see specific major for listing of additional requirements); submit application for admission to degree program; and receive approval from faculty advisor and Head of the Department of Art and Design.

### Graduate Programs

The following graduate programs are available:

Secondary Education with an option in Art (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

### General Information

#### Facilities and Resources

Brick City, the Art and Design Complex, is a recently renovated group of historic building in close proximity to the thriving downtown arts community. It contains extensive studio facilities for Two and Three Dimensional Foundations studies, Foundation

Drawing, Painting, Sculpture, Art Education, and the Brick City Galleries. Student work is displayed within the Brick City facilities 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, and facilities for the metals/jewelry courses. 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 photographic and printmaking studios. Additional studios and classrooms for Photography and Digital Imaging are located in Pummill Hall.

The ground floor of Hill Hall, adjacent to Ellis Hall on the west, houses the foundry. This facility has two large furnaces appropriate for sculpture classes for metal casting.

The Jim D. Morris Center for Continuing Education is the home of the Graphic Design, Illustration, and Computer Animation programs. The fifth floor holds two regularly updated 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 Duane G. Meyer Library maintains an extensive collection of art and design periodicals as well as books relating to art and design history

#### Brick City Galleries

215 W. Mill St., (417) 836-6794, <http://art.missouristate.edu/gallery.php>. Exhibitions change monthly during the school year. Each year the exhibition schedule includes shows by distinguished artists and designers from all regions of the country and internationally. Faculty exhibitions are scheduled bi-annually.

**Student Exhibition Center**, 838 E. Walnut St., (417) 836-6999, <http://sec.missouristate.edu>. 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.

## Majors

### 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.

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (75-78 hours)

1. Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
2. Studio Core (15 hours) – complete five courses with at least one from each of the three groups below:
  - a. ART 202(3), 225(3), 242(3)
  - b. ART 212(3), 223(3), 235(3)
  - c. ART 210(3), 230(3), 255(3)
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
4. Studio Emphasis (15-21 hours): a minimum of 15 but no more than 21 upper-division (300 level or above) hours in one of the following studio areas:
  - a. **Ceramics:** Required: ART 312(3), 313(6). Electives: ART 314(3-12), 336(3-9), 399(3-6)
  - b. **Computer Animation:** Required: ART 330(3), 331(3), 430(3), 431(3). Electives: ART 432(3-6), 399(3-6)
  - c. **Digital Arts:** ART 310(3-6), 399(3-6), 410(3-6). Electives: ART 330(3), 331(3), 430(3), 431(3) and DES 345(3)
  - d. **Drawing:** Required: ART 315(3-6), 316(3-9). Electives: ART 399(3-6)
  - e. **Metals/Jewelry:** Required: ART 322(3), 323(3), 324(3-12). Electives: ART 399(3-6)
  - f. **Painting:** Required: ART 325(3-6). Electives: ART 326(3-9), ART 399(3-6), ART 425(3-9)
  - g. **Photography:** Electives: ART 354(3-9), 355(3-9), 356(3-9), 357(3-9), 358(3-9), 359(3-9), 399(3-6), 455(3-6)
  - h. **Printmaking:** Required: ART 342(3-9). Electives: ART 343(3-9), 399(3-6)
  - i. **Sculpture:** Required: ART 335(3-9). Electives: ART 336(3-9), 399(3-6)
5. 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.
6. Art and Design Electives (9-15 hours): additional courses in studio, design, art history, art education, or aesthetics (PHI 320) outside of the area of emphasis, 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 fulfillment of this requirement.

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Art and Design (Non-Comprehensive)

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

- B. Major Requirements (36 hours)
  - 1. Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
  - 2. Art History (9 hours): ART 271(3) or 272(3), and 6 hours of art history electives
  - 3. Studio Emphasis: a minimum of 6 hours in one of the following studio areas: painting, printmaking, photography, sculpture, ceramics, metals/jewelry or digital imaging
  - 4. 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
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 section of this catalog.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirement: ART 271(3) or 274(3)
- B. Major Requirements (60 hours)
  - 1. Foundations Courses (12 hours): ART 100(3), 101(3), 115(3), 215(3)
  - 2. Art History (9 hours): ART 271(3) or 272(3); 273(3) or 274(3); and 480(3) or 484(3)
  - 3. Studio Art (27 hours):
    - a. ART 212(3), 225(3), 235(3), 242(3) or 243(3), 253(3), 255(3)
    - b. 3 courses from: ART 210(3), 312(3), 315(3), 322(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)
  - 4. Art Education (12 hours): ART 360(3), 366(3), 460(3), 466(3)
- C. Professional Education courses: ART 401(3), 490 (5-6), 491(5-6); and the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (39 hours)
  - 1. Core Courses (18 hours): ART 271(3), 272(3), 273(3), 274(3), 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. Area I: ART 472(3), 474(3)
    - b. Area II: ART 475(3), 478(3)
    - c. Area III: ART 381(3), 479(3), 480(3), 484(3)
    - d. Area IV: ART 374(3), 382(3)
    - e. Area V: ART 385(3), 485(4)
    - f. Area VI: ART 386(3)
    - g. Area VII: 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 (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 a 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 Graphic Design and Illustration. 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 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 [General Education Program and Requirements](#) section of catalog

B. Major Requirements (75-90 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); ART 273(3) or 274(3) or 382(3); ART 480(3) or 484(3)
4. Studio Art (12 hours): ART 225(3), 255(3), 315(3), ART 235(3) or 242(3)
5. Professional Design Practicum (3 hours): DES 490(3)
6. Complete one of the options below
  - a. **Graphic Design** (18 hours):
    1. DES 330(3), 331(3), 332(3), 340(3), 430(3)
    2. Three hours of Design electives from DES 345(3), 440(3), 497(3), or 499(3)
  - b. **Illustration** (18 hours):
    1. DES 250(3), 350(3), 452(3)
    2. Six hours of DES 497(3)-Special Topics in Illustration(may not repeat the same topic)
    3. Three hours of electives chosen from:  
Photography-ART 354(3), 355(3), 356(3), 357(3), 358(3); Printmaking-ART 242(3)\*, 243(3), 342(3), 343(3);  
Drawing and Painting-ART 315(3)\*, 316(3), 325(3), Digital Imaging-ART 310(3), 410(3);Computer  
Animation-ART 230(3); Design-DES 345(3), 497(3)-may not be same topic 499(3)  
\* ART 315 and ART 242 cannot be counted both here and toward the Studio Art requirement, however, ART 315 may be repeated.
  - c. **Graphic Design and Illustration** (33 hours):
    1. Fifteen hours in Graphic Design: DES 330(3), 331(3), 332(3), 340(3), 430(3)
    2. Nine hours in illustration: DES 250(3), 350(3), 452(3)
    3. Six hours of DES 497(3)-Special Topics in Illustration (may not repeat the same topic)
    4. Three hours of design electives: DES 345(3), 440(3), 497(3)- may not repeat topic already taken, DES 499(3)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Electronic Arts (Non-Comprehensive)

Bachelor of Science

This program is offered in conjunction with the [Department of Media, Journalism & Film](#).

**Admission Requirements:** 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.

**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. Students seeking admission to the Electronic Arts program in the area of Computer Animation Studies must include at least one work from ART 230 or ART 330. Specific guidelines are required for portfolios. See advisor or the Electronic Arts Coordinator for details.

A. General Education Requirements - see [General Education Program 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:** See [Department of Media, Journalism & Film](#) section of catalog
  - b. **Computer Animation Studies:** ART 230(3); MED 465(3); select 12 hours with advisor approval: ART 330(3), 331(3), 430(3), 431(3), 432(3-6), 399(3-6)
  - c. **Multimedia Studies:** See [Department of Media, Journalism & Film](#) section of catalog
  - d. **Video Studies:** See [Department of Media, Journalism & Film](#) section of catalog

C. Minor Required. NOTE: No more than 6 hours may count for both the major and the minor. Students should seek advisor approval for courses in the minor.

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 History

Bachelor of Arts

Bachelor of Fine Arts

- A. ART 271(3) or 272(3); and ART 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 history to no fewer than 18. Note: Students may not use both ART 480(3) and ART 484(3) to fulfill the 12 hours of electives.

### Art History

Bachelor of Science

- A. ART 271(3) or 272(3); and ART 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 History to no fewer than 21. Note: Students may not use both ART 480(3) and ART 484(3) to fulfill the 15 hours of electives.

### 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 History to no fewer than 21. Note: Students may not use both ART 480(3) and ART 484(3) to fulfill the 9 hours of electives

### 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)

## Art Courses

### ART 98 Topics in Art and Design

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. May be repeated to a total of 6 hours. 1-2 D

### ART 100 Two-Dimensional Design

Elements and principles of two-dimensional design. Experience with a variety of media and subject matter. 3(0-6) F,S

### ART 101 Three-Dimensional Design

Prerequisite: ART 100. Elements and principles of three dimensional design. Experience with a variety of media and subject matter. 3(0-6) F,S

### ART 110 Two-Dimensional Design for Digital Media

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. 3(0-6) S

### ART 115 Drawing I

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. 3(0-6) F,S

### ART 200 Art in Context

General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

### ART 202 Intermediate Design

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. 3(0-6) F,S

**ART 210 Introduction to Digital Arts**

Prerequisite: ART 100 or ART 110; and CIS 101 or CSC 101 or CSC 111. Exploration of digital art forms, focusing on the interrelationship of the digital technology on art and culture. The goal of the course is to weave technical skills into creative vision. 3(0-6) F,S

**ART 212 Ceramics I**

An introduction to handbuilding, wheel and firing processes, including raku. Fundamentals of ceramic materials, equipment, and preparation of clay and glazes. 3(0-6) F,S

**ART 215 Drawing II**

Prerequisite: ART 115. Continuation of drawing fundamentals in greater depth and exploration of additional media. 3(0-6) F,S

**ART 223 Metals-Jewelry I**

Introduction to non-ferrous metal fabrication processes including piercing, soldering and finishing. Fundamentals of tools, materials, and jewelry concepts. 3(0-6) F,S

**ART 225 Painting I**

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. 3(0-6) F,S

**ART 226 Watercolor for the Non-Art Majors**

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. 3(0-6) F,S

**ART 230 Computer Animation I**

Prerequisite: ART 100 or ART 110. Exploration of visual expression through the use of sequential images. Experience with a wide range of digital processes. 3(0-6) F

**ART 235 Sculpture I**

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. 3(0-6) F,S

**ART 242 Printmaking I**

Prerequisite: ART 100 and ART 115 and ART 215. Beginning problems in printmaking. 3(0-6) F,S

**ART 243 Relief Print**

Prerequisite: ART 215. An exploration of the relief processes through the mediums of linocut and woodcut. 3(0-6), D

**ART 253 Fibers**

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. 3(0-6) F

**ART 255 Photography I**

Prerequisite: ART 100. Basic course in black and white photography. Includes camera controls and darkroom work. Photography as visual expression. 3(0-6) F,S

**ART 271 History of Western Art I**

Prerequisite: ENG 110. General Education Course (Culture and Society/Humanities Perspective). A survey of Western art and the cultures that produced it from Prehistory through the Gothic period. 3(3-0) F,S

**ART 272 History of Western Art II**

Prerequisite: ENG 110. General Education Course (Culture and Society/Humanities Perspective). A survey of Western art and the cultures that produced it from the Gothic Period to the Second World War. 3(3-0) F,S

**ART 273 Survey of the Art of Africa, Oceania, and the Americas**

Prerequisite: ENG 110. General Education Course (Culture and Society/Humanities Perspective). A survey of the art and architecture produced by the cultures of Africa, Oceania, and the Americas. 3(3-0) F,S

**ART 274 Survey of Asian Art**

Prerequisite: ENG 110. General Education Course (Culture and Society/Humanities Perspective). A survey of the art objects and the cultures which produced them, primarily those of India, China, and Japan. 3(3-0) F,S

**ART 300 Fundamentals of Collaboration in Electronic Arts**

Prerequisite: permission of the instructor based on passing Candidacy Review in Electronic Arts. Exploration of aesthetic and communication issues involved in producing work in interdisciplinary electronic media. 3(0-6) S

**ART 310 Time-Based Digital Arts**

Prerequisite: ART 210. This course explores video art, focusing on production and theory with an emphasis on creative expression. Alternative means of moving image can be explored as well. May be repeated to a total of 6 hours. 3(0-6) S

**ART 312 Ceramics II**

Prerequisite: ART 101 and ART 212. A continued investigation of the potter's wheel as a tool to create ceramic forms. Greater exploration of surface enhancement materials, and processes including basic glaze chemistry and firing operations. Evidence of expanded individuality in the understanding of advanced technique and sensitivity to form expected. 3(0-6) F,S

**ART 313 Ceramics III**

Prerequisite: ART 312. Advanced studio and firing responsibilities. Must be repeated to a total of 6 hours. The first three credit hours: a continued investigation of hand-building techniques as a way to create ceramic forms and exploring further development of surface treatments. When repeated, the second three credit hours: advanced problems associated with clay and form and surface treatment. Evidence of expanded individuality in the understanding of advanced technique and sensitivity of form expected. Must be repeated to a total of 6 hours. 3(0-6) F,S

**ART 314 Special Topics in Ceramics**

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. 3(0-6) D

**ART 315 Drawing III**

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. 3(0-6) F,S

**ART 316 Life Drawing**

Prerequisite: ART 215. Drawing the human figure with emphasis on anatomy, structure, and form. May be repeated to a total of 9 hours. 3(0-6) F, S

**ART 322 Jewelry and Metalsmithing**

Prerequisite: ART 101 and ART 223. Further exploration of metal fabrication processes. Introduction to jewelry scale casting and to silversmithing techniques. 3(0-6) F

**ART 323 Jewelry, Metals, and Enameling**

Prerequisite: ART 101 or concurrent enrollment; and ART 223. Further exploration of metal fabrication and smithing processes. Introduction to enameling and other color techniques on metal. 3(0-6) S

**ART 324 Metals and Jewelry III**

Prerequisite: ART 322 and ART 323. Advanced problems in metals. Greater exploration of materials and techniques with an emphasis on individual problem-solving. May be repeated to a total of 12 hours. 3(0-6) F,S

**ART 325 Painting II**

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 6 hours. 3(0-6) F,S

**ART 326 Painting with Water-Based Media**

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. 3(0-6) F,S

**ART 330 Computer Animation II**

Prerequisite: ART 230. Further exploration of visual expression in animation. Advanced techniques in the manipulating of forms and animation. Advanced techniques in the manipulating of forms and surfaces within the digital 3D environment. 3(0-6) S

**ART 331 Computer Animation III**

Prerequisite: ART 330 and permission of 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. Further exploration of visual expression in animation. Advanced techniques in animating within the digital 3D environment. 3(0-6) F

**ART 335 Sculpture II**

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. 3(0-6) F,S

**ART 336 Figure Modeling**

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. 3(0-6), D

**ART 342 Printmaking II**

Prerequisite: ART 242. Advanced problems in printmaking. May be repeated to a total of 9 hours. 3(0-6) F,S

**ART 343 Lithography**

Prerequisite: ART 242. Exploration of stone lithography as an expressive means toward creating hand-pulled prints. May be repeated to a total of 9 hours. 3(0-6), D

**ART 354 Medium Format Photography**

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. 3(0-6) F,S

**ART 355 Large Format Photography**



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. 3(0-6) F,S

**ART 356 Color Photography**

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. 3(0-6) F,S

**ART 357 Special Topics in Photography**

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. 3(0-6) D

**ART 358 Studio Photography**

Prerequisite: ART 354 and ART 355. An investigation of technical, aesthetic, and conceptual issues of studio photography with emphasis on the portrait and the still-life. May be repeated to a total of 9 hours. 3(0-6) S

**ART 359 Digital Photography**

Prerequisite: ART 356. An investigation of technical and aesthetic issues of digital photography including the use of a digital camera, film scanning, software, and digital output. Emphasis on the development of expressive photographic images. May be repeated to a total of 9 hours. 3(0-6) F,S

**ART 360 Introduction to Art Education**

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. 3(2-3) S

**ART 366 Elementary Art Education**

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. 3(2-3) F

**ART 374 Art of India**

Prerequisite: ART 274. Survey of the major art and architecture monuments of India and the cultural context from which they were produced. 3(3-0) D

**ART 377 History of Graphic and Applied Design**

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. 3(3-0) S

**ART 378 Women and Art**

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. 3(3-0) D

**ART 381 The Art of the United States of America**

Prerequisite: ART 272. The art of the United States from its pre-Revolutionary days to the present. 3(3-0) D

**ART 382 Survey of Islamic Art**

Prerequisite: ENG 110. A survey of the art produced in the lands under the influence of the Islamic religion. 3(3-0) D

**ART 385 Art of the Americas**

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. 3(3-0) D

**ART 386 Art of Africa**

Prerequisite: ART 273. A survey of the art and architecture of Africa and the cultures that produced it. 3(3-0) D

**ART 387 History of Photography**

Prerequisite: ART 272. The development and history of photography as an artistic medium. 3(3-0) D

**ART 390 Art History Teaching Assistant**

Prerequisite: permission of instructor. Under the direct guidance of the professor, the student will assist the professor in teaching, supervising, and/or grading course materials. May be repeated to a total of 3 hours. Graded Pass/Not Pass only. Does not count toward the BA or BSED in Art and Design or BFA in Art or BFA in Design. 0-1 D

**ART 399 Individual Instruction**

Prerequisite: senior or postbaccalaureate 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. 3(0-6) F,S

**ART 401 Teaching of Art**

Prerequisite: ART 366; and EDC 350 or concurrent enrollment; 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. 3(2-3) S

**ART 407 Art Internship**

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. 1-3 D

**ART 410 Seminar in Digital Arts**

Prerequisite: ART 310. Advanced research in digital arts, with emphasis on developing personal vision. May be repeated to a total of 9 hours. 3(0-6) F,S

**ART 425 Painting III**

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. Repeatable up to 9 hours. 3(0-6) F,S

**ART 430 Computer Animation IV**

Prerequisite: ART 331. Individual problems in animation and advanced techniques. Emphasis will be placed on the development of a personal point of view. 3(0-6) S

**ART 431 Professional Practices in Computer Animation**

Prerequisite: ART 430. Lecture, discussion and assignments for students seeking careers in computer animation. Presentation skills will be emphasized. Students will be required to write and perform research, as well as continue to develop their portfolio. 3(0-6) F

**ART 432 Computer Animation V**

Prerequisite: ART 431. Individual portfolio development in animation. Emphasis will be placed on the development of a personal point of view. May be repeated to a total of 6 hours. 3(0-6) F,S

**ART 455 Advanced Photography Seminar**

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. 3(0-6) F,S

**ART 460 Critical Studies in Art Education**

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. 3(2-3) F

**ART 466 Art Education Practicum**

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. 3(2-3) F

**ART 469 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**ART 472 Medieval Art**

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. 3(3-0) D

**ART 474 Classical Art**

Prerequisite: ART 271. A survey of the art and architecture of Greece and Rome including the art of Crete and Mycenae. 3(3-0) D

**ART 475 Art of the Renaissance**

Prerequisite: ART 272. A survey of painting, sculpture, and architecture in Europe from 1300-1575. 3(3-0) D

**ART 478 Baroque Art**

Prerequisite: ART 272. The major figures and developments in art and architecture from Mannerism through the Rococo in Italy and Northern Europe. 3(3-0) D

**ART 479 19th Century Art**

Prerequisite: ART 272. The major figures and developments in art and architecture from Neo-Classicism through the end of the century in Europe. 3(3-0) D

**ART 480 Modern Art**

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. 3(3-0) F,S

**ART 483 Modern Architecture and Urban Forms**

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. 3(3-0) D

**ART 484 Contemporary Art**

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. 3(3-0) D

**ART 485 Art of Mesoamerica**

Prerequisite: ART 273. The art and architecture of Mesoamerica and the cultures that produced it. 3(3-0) D

**ART 490 Supervised Teaching (Secondary Art and Design)**

Prerequisite: completion of all method courses in Art Education; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches art 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6, F,S

**ART 491 Supervised Teaching (Elementary Art and Design)**

Prerequisite: concurrent enrollment in ART 490. 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. Student participates in the program exit exhibition, "Students of Students Show". In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6, F,S

**ART 492 Art History Methodology**

Prerequisite: 12 hours of art history at the 300- or 400- level. This is a critical study of the various methodologies used in the discipline of art history. This course will prepare students to pursue advanced study in art history. 3(3-0) D

**ART 494 Independent Study in Art History**

Prerequisite: appropriate survey course (ART 271 or ART 272 or ART 273 or ART 274); and permission of instructor. Individual projects and special problems in Art History. Permission granted only in special circumstances. May be repeated to a total of 6 hours. 3(3-0) D

**ART 495 Internship in Art History**

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. 1-3 D

**ART 496 Selected Topics in Art History**

Prerequisite: permission of instructor. The specific topics will change from semester to semester 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. 3(3-0) D

**ART 497 Selected Topics in Art and Design**

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. 1-3, D

**ART 498 Senior Project in Electronic Arts**

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. 2(1-2) F,S

**ART 499 Senior Exhibition**

Prerequisite: senior standing; and completion of BFA Candidacy Review; and permission of studio advisor. 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 BFA degree in art. May not be taken Pass/Not Pass. 3(2-2) F,S

**ART 590 Art Studio Workshops**

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. May be taught concurrently with ART 690. Cannot receive credit for both ART 690 and ART 590. 2-3 F,S

**ART 598 Seminar in Art Education**

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. May be taught concurrently with ART 698. Cannot receive credit for both ART 698 and ART 598. Supplemental course fee. 1-3 Su

#### **ART 690 Art Studio Workshops**

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. May be taught concurrently with ART 590. Cannot receive credit for both ART 590 and ART 690. 2-3, F,S

#### **ART 698 Seminar in Art Education**

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. May be taught concurrently with ART 598. Cannot receive credit for both ART 598 and ART 698. Supplemental course fee. 1-3, Su

#### **ART 700 Historical Perspectives in Art Education**

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. 3(3-0), F

#### **ART 760 Contemporary Issues and Current Trends in Art Education**

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. 3(3-0), S

#### **ART 783 Practicum in Art Education and Educational Workshops**

Prerequisite: ART 360 and ART 366 and 30 hours of studio art. Observation and classroom teaching experiences; writing unit and lesson plans; classroom motivation, management and discipline; educational seminar workshops; and exhibition of K-12 student artworks. 3(2-3), F

#### **ART 794 Independent Study in Art History**

Prerequisite: permission of instructor. Individual projects and special problems in Art History. Permission granted only in special circumstances. May be repeated to a total of 9 hours. 1-3 D

#### **ART 795 Graduate Internship in Art History**

Prerequisite: permission of instructor. Student will complete various duties as assigned with art history-related organizations. These include local museums, galleries, and/or various resource-media collections. May be repeated to a total of 6 hours. 1-3 D

#### **ART 799 Independent Study**

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. 3(0-6), F,S

### **Design Courses**

#### **DES 202 Graphic Design Systems**

Prerequisite: ART 100 and ART 101 and ART 215; Missouri State GPA of at least 2.50; and a major GPA of at least 2.50. Abstract and theoretical applications of design systems including grid information, various symmetries, and printed page formats. 3(0-6) F

#### **DES 210 Introduction to Computer Graphic Design**

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. 3(0-6) F

#### **DES 250 Materials and Techniques for Illustration**

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. A study of methods and materials used in traditional illustration. 3(0-6) F

#### **DES 300 Graphics for the Non-Design Major**

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. Course will not count toward the BFA degree in Design. 3(0-6) F,S

#### **DES 301 Graphic Production**

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. 3(0-6) S

#### **DES 303 Basic Typography**

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. 3(0-6) S

#### **DES 330 Communication Design/Methodology**

Prerequisite: C or better in both DES 301 and DES 303 and admitted to BFA Design 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. 3(0-6) F

#### **DES 331 Advanced Typography**

Prerequisite: C or better in both DES 301 and DES 303 and admitted to BFA Design degree program. Application of typography in different fields of visual communication and publication design. Exploration of the relationship between meaning, content, and typographic layout. 3(0-6) F

#### **DES 332 Image Design**

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. 3(0-6) S

**DES 340 Web Design for Design Majors**

Prerequisite: DES 330. Basic knowledge of web design using HTML, including information architecture and image optimization for the web. 3(0-6) S

**DES 345 Basic New Media Design**

Prerequisite: DES 210 or ART 210. Course will focus on basic knowledge of new media design and production. The course covers interactive interface design. 3(0-6) D

**DES 350 Illustration**

Prerequisite: ART 315 (or concurrent enrollment in ART 315) and C or better in DES 250 and admitted to BFA Design degree program. The study of various approaches and techniques of illustration for print and publication, including an introduction to digital illustration. 3(0-6) S

**DES 430 Advanced Graphics**

Prerequisite: ART 377; and either ART 225 or ART 315 (or concurrent enrollment in ART 225 or ART 315); 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. 3(0-6) F

**DES 440 Advanced Web Design for Design Majors**

Prerequisite: DES 340. Advanced skills in web design particularly focusing on interactive flash websites with multimedia content. 3(0-6) F

**DES 452 Intermediate Illustration**

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. 3(0-6) F

**DES 490 Professional Design Practicum**

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. 3(0-6) S

**DES 497 Special Topics in Design**

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. 3(0-6) S

**DES 499 Design Internship**

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. 1-3 D

Office of the Registrar  
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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Department of Communication

## Department of Communication

Craig Hall, Room 375, Phone: (417) 836-4423, Fax: (417) 836-4774  
Email: [Communication@missouristate.edu](mailto:Communication@missouristate.edu)  
Website: <http://communication.missouristate.edu>  
Interim Department Head: Professor Randy K. Dillon, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Charlene A. Berquist, Ph.D.; John S. Bourhis, Ph.D.; Randy K. Dillon, Ph.D.; Gloria J. Galanes, Ph.D.; Janis L. King, Ph.D.

**Associate Professors:** Isabelle Bauman, Ph.D.; Samuel C. Dyer, Ph.D.; Kelly S. Wood, Ph.D.

**Assistant Professors:** Heather J. Carmack, Ph.D.; Elizabeth Dudash, Ph.D.; Eric Morris, Ph.D.; Stephanie N. Norander, Ph.D.

**Instructors:** Lynn Borich, M.A.; Allison Coltharp, M.A.; Nora Cox, M.A.; Sandra House, Ed.D.; Jerri Lynn Kyle, M.A.; Robyn Rowe, M.A.; Heather Walters, J.D.

**Emeritus Professors:** Deborah Craig, M.A.; R. Richard Ellis, M.A.; Herbert W. Jackson, Ph.D.; Russell M. Keeling, Ph.D.; John I. Sisco, Ph.D.; Holt V. Spicer, Ph.D.; Richard L. Stovall, Ph.D.; Ralph R. Smith, Ph.D.; Donal J. Stanton, Ph.D.

### Accreditation

Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Speech and Theatre Education, B.S.Ed.

### Mission Statement

The mission of the Department of Communication is to advance knowledge and practice of effective and ethical communication through teaching, scholarship, and engagement. Six themes unite the various disciplinary specialties represented by our faculty: communication competence, ethical discourse, diversity, leadership and participation, advocacy, and issues analysis.

### Program Requirements and Restrictions

#### Admission Requirements

All majors in the Department of Communication must satisfy the following requirements before they can be admitted to the program.

- A. Complete a minimum of 59 credit hours.
- B. Complete the General Education Basic Required Courses.
- C. 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.
- D. Complete COM 115, COM 209, and MED 120 with a GPA of 2.50 or higher.
- E. Complete any additional admission requirements for selected emphasis or major.
- F. 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.

Students pursuing a second option in the BA and BS Communication degree (non-comprehensive) must complete a minimum of 9 credit hours not counted as requirements on any major option. The additional major option cannot be used to satisfy the requirement of a minor or additional major.

A minimum of 9 credit hours not counted as requirements on any Department of Communication major or other Department of Communication minor is required for the completion of any minor in the Department of Communication. Students with a BA or BS in Communication may not select any minor with the Department of Communication to meet their minor requirement. Students with a BS in Public Relations may select the Ethical Leadership minor in the Department of Communication to fulfill their minor requirement. Although a minor is not required for the BS in Socio-Political Communication or the BSED in Speech and Theatre Education, students may select the Ethical Leadership minor in the Department of Communication as an optional minor.

### Graduate Programs

The following graduate programs are available:

Communication (Master of Arts).

Refer to the [Graduate Catalog](#) for more information.

Courses are offered toward the Applied Communication option within the Master of Science degree in Administrative Studies. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Arts degree in Communication

Eligible undergraduate majors in the School of Communication Studies may apply for early admission to the Master of Arts in Communication during the second semester of their junior year. Once accepted for early admission, students will be able to take up to 10 credit hours at the 600-700 level that apply to both their undergraduate and graduate degree programs (Mixed Credit). Students must enroll in COM 701 during the fall semester of their senior year as part of the accelerated program. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

#### University Certificate (graduate)

A graduate level certificate in Conflict and Dispute Resolution is available. Refer to the Graduate Catalog for more information.

## General Information

### Student Activities

#### Debate, <http://debate.missouristate.edu>

Missouri State boasts a tradition of excellence in debate. The debate program is one of the oldest in the country - as old as the university itself - and has consistently been one of the top 20 debate programs in the nation. Missouri State is also the only school in the nation to have hosted both the Cross-Examination Debate Association (CEDA) National Tournament and the National Debate Tournament (NDT). Missouri State students participate in NDT/CEDA policy debate. In 1992, Missouri State won first place at the CEDA National Tournament. Missouri State students have appeared in the "Sweet Sixteen" of college debate eleven times in the last twenty years, including a second place finish and three additional final four appearances (the latest in 2008.) In 2006 and 2008, the team secured one of 16 prestigious "First Round At Large" bids to the NDT. 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.

## Majors

### Communication (Non-Comprehensive)

#### Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: COM 115(3), MED 120(3)
- B. Major Requirements (33 hours)
  1. Theory and Method Core (9 hours): COM 209(3), 210(3), 350(3)
  2. Communication Practices Core (9 hours): COM 205(3), 315(3); 322(3) or 328(3). (One course may not be used to satisfy both the Communication Practices Core and Option Requirements.)
  3. Program Assessment (0 hours): COM 499(0)
  4. Choose one of the following options:
    - a. **Communication Studies** (15 hours): COM 325(3) or 326(3)\*; 12 additional hours chosen from: COM 206(3), 307(3), 309(3); 322(3) or 328(3); 325(3) or 326(3)\*; 332(3), 336(3), 360(3), 397(3)\*\*, 405(3), 495(3), 506(3), 550(3), 566(3), 597(3)\*\*; MED 580(3)
    - b. **Ethical Leadership** (15 hours): COM 325(3) or 326(3); 436(3), 513(3); PHI 341(3) or 345(3); 3 additional hours chosen from: COM 206(3), 307(3), 332(3), 336(3); 360(3) or 512(3); 405(3), 495(3), 506(3), 566(3); PHI 302(3), 342(2), 513(3); PSY 355(3), 356(3); PSY 555(1) and 556(2); PLS 319(3); REL 370(3)
    - c. **Health Communication** (15 hours): COM 206(3); 325(3) or 326(3); 507(3), 508(3); 3 additional hours chosen from: COM 390(3), 597(3)\*\*
    - d. **Intercultural Communication and Diversity** (15 hours): COM 325(3) or 326(3); 360(3), 512(3); 6 additional hours chosen from: COM 307(3), 390(3), 397(3)\*\*, 405(3), 495(3), 513(3), 566(3), 597(3)\*\*
    - e. **Interpersonal Communication** (15 hours): COM 325(3) or 326(3); 332(3), 405(3), 506(3); 3 additional hours chosen from: COM 307(3), 360(3), 390(3), 495(3), 511(3), 513(3), 521(3)
    - f. **Organizational Communication** (15 hours): COM 332(3), 336(3); 360(3) or 512(3); 436(3), 597(3)\*\*
    - g. **Rhetoric** (15 hours): COM 322(3) or 328(3); 325(3) or 326(3); 397(3)\*\* or 597(3)\*\*; 566(3); 3 additional hours chosen from: COM 397(3)\*\*, 495(3), 513(3), 550(3), 597(3)\*\*
  5. *\*If both COM 325 and 326 are taken, all 6 hours may count toward the 15 hour requirement.*  
*\*\*With advisor approval. No more than 3 total hours of COM 397 or 597 may be counted toward the 33 hours required.*
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Communication (Non-Comprehensive)

#### Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: COM 115(3), MED 120(3)



B. Major Requirements (33 hours)

1. Theory and Method Core (9 hours): COM 209(3), 210(3), 350(3)
2. Communication Practices Core (9 hours): COM 205(3), 315(3); 322(3) or 328(3). (One course may not be used to satisfy both the Communication Practices Core and Option Requirements.)
3. Program Assessment (0 hours): COM 499(0)
4. Choose one of the following options:
  - a. **Communication Studies** (15 hours): COM 325(3) or 326(3)\*; 12 additional hours chosen from: COM 206(3), 307(3), 309(3); 322(3) or 328(3); 325(3) or 326(3)\*; 332(3), 336(3), 360(3), 397(3)\*\*, 405(3), 495(3), 506(3), 550(3), 566(3), 597(3)\*\*; MED 580(3)
  - b. **Ethical Leadership** (15 hours): COM 325(3) or 326(3); 436(3), 513(3); PHI 341(3) or 342(3); 3 additional hours chosen from: COM 206(3), 307(3), 332(3), 336(3); 360(3) or 512(3); 405(3), 495(3), 506(3), 566(3); PHI 302(3), 342(2), 513(3); PSY 355(3), 356(3); PSY 555(1) and 556(2); PLS 319(3); REL 370(3)
  - c. **Health Communication** (15 hours): COM 206(3); 325(3) or 326(3); 507(3), 508(3); 3 additional hours chosen from: COM 390(3), 597(3)\*\*
  - d. **Intercultural Communication and Diversity** (15 hours): COM 325(3) or 326(3); 360(3), 512(3); 6 additional hours chosen from: COM 307(3), 390(3), 397(3)\*\*, 405(3), 495(3), 513(3), 566(3), 597(3)\*\*
  - e. **Interpersonal Communication** (15 hours): COM 325(3) or 326(3); 332(3), 405(3), 506(3); 3 additional hours chosen from: COM 307(3), 360(3), 390(3), 495(3), 511(3), 513(3), 521(3)
  - f. **Organizational Communication** (15 hours): COM 332(3), 336(3); 360(3) or 512(3); 436(3), 597(3)\*\*
  - g. **Rhetoric** (15 hours): COM 322(3) or 328(3); 325(3) or 326(3); 397(3)\*\* or 597(3)\*\*; 566(3); 3 additional hours chosen from: COM 397(3)\*\*, 495(3), 513(3), 550(3), 597(3)\*\*
5. \* If both COM 325 and 326 are taken, all 6 hours may count toward the 15 hour requirement.  
\*\*With advisor approval. No more than 3 total hours of COM 397 or 597 may be counted toward the 33 hours required.

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

**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 [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: COM 115(3), MED 120(3)

B. Major Requirements (48 hours)

1. Departmental Core (3 hours): COM 209(3)
2. Public Relations Core: COM 210(3), 309(3), 336(3), 379(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 (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

**Socio-Political Communication (Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: COM 115(3), MED 120(3)

B. Major Requirements (48 hours)

1. Departmental Core (3 hours): COM 209(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. 12 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)

\*All special topics courses require advisor approval. No more than 6 hours of special topics may be credited toward the major.

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

**Speech and Theatre Education**

Bachelor of Science in Education  
(Certifiable grades 9-12)

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog



**B. Major Requirements (41 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), 322(3), 532(3), 534(3), 536(2); THE 123(3), 130(3), 150(2), 151(1), 310(3), 430(3)

**2. Communication Option:**

a. COM 205(3), 209(3)

b. 6 hours of electives to be chosen from the following: COM 307(3), 320(3), 321(3), 328(3), 332(3), 336(3), 350(3), 405(3), 512(3); THE 505(3), 506(3), 510(3), 515(3), 530(3), 541(3), 542(3)

C. Professional Education courses: COM 417(3), COM 490 (6), COM 491(6); and the Professional Education Required Core and Competencies - see **Teacher Certification, Teacher Education Program and Secondary Education Requirements** section of catalog

D. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree 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.

### Ethical Leadership

Bachelor of Arts  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)

A. COM 436(3), 513(3); and COM 360(3) or 512(3)

B. Select one course with advisor approval from: COM 205(3), 322(3), 315(3), 326(3)

C. Select two courses with advisor approval from: COM 206(3), 307(3), 332(3), 336(3), 405(3), 495(3), 506(3), 566(3); GST 170(3); HST 324(3); PHI 302(3), 342(3), 513(3); PLS 319(3); PSY 320(3), 355(3), 356(3), 379(3), REL 370(3)

D. No more than 6 hours may also count toward a major.

## University Certificate (undergraduate)

### Conflict and Dispute Resolution

The intent of the undergraduate certificate in Conflict and Dispute Resolution is to provide concentrated training in conflict processes that can be applied to a variety of degree and professional areas. Students completing this program will have a better understanding of the dynamics of conflict and the skills to effectively negotiate conflict in a wide range of settings.

#### Admission Requirements

To be admitted students must have 60 credit hours, have a 3.00 GPA, and submit a personal statement explaining their reasons for seeking the certificate and how the program will meet their professional goals. Meeting the minimum application requirements does not guarantee admission to the certificate.

#### Program Requirements

A. Complete the following 3 courses: COM 205(3), 511(3), 521(3)

B. Complete 1 credit hour of internship experience that directly relates to conflict and its application in professional settings. Students must have completed COM 511 and COM 521 or 6 credit hours of equivalent conflict courses before enrolling in the internship. In most instances, certificate students will enroll in COM 495, Communication Internship, to fulfill the internship requirement. Other internship courses may be substituted with approval of the certificate advisor.

C. Complete 6 hours of elective credits. The intent of these electives is to allow students to focus on conflict processes that are specific to their professional interest area. Courses in the 6 hour elective requirement allow a more discipline specific focus than is found in the core and may include COM 501, Special Topics in Conflict, or other courses selected in consultation with the certificate advisor.

## Communication Courses

### COM 100 Introduction to Majors in Communication

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. 1(1-0) F,S

### COM 115 Fundamentals of Public Speaking

General Education Course (Basic Required Courses). 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. 3(3-0) F,S

**COM 120 Fundamentals of Debate**

A survey of fundamental principles of debate, including research techniques, argument invention and construction, refutation, and strategy. This course is taught in relationship to current debate topics, and is not limited to participants on the debate team. May be repeated to a total of 12 hours. Variable content course. 3(3-0) F,S

**COM 205 Interpersonal Communication Theory and Skills**

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. 3(3-0) F,S

**COM 206 Introduction to Health Communication**

An introductory survey of contemporary health communication issues, including patient-provider communication, health ethics, health organizations, health campaigns, and health and the media. 3(3-0), F

**COM 209 Survey of Communication Theory**

A survey of selected theoretical approaches to understanding mediated and non-mediated human communication. 3(3-0) F,S

**COM 210 Communication Research Methods**

Recommended Prerequisite: COM 209. A survey of the quantitative and qualitative 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, and qualitative analysis techniques. 3(3-0) F,S

**COM 300 Careers in Communication**

Prerequisite: COM 115 and COM 209. This course assists Communication students to assess their abilities and qualifications, to research professional opportunities, and to prepare for job searching and career planning. 1(1-0) D

**COM 305 Service Learning in Communication**

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. 1 F,S

**COM 307 Gender and Communication**

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. 3(3-0) D

**COM 309 Principles of Public Relations**

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. 3(3-0) F,S

**COM 315 Public Speaking II**

Prerequisite: COM 115. Study and practice in speech research, composition and presentation. Emphasis is placed on speeches for business and the professions. 3(3-0) F,S

**COM 320 Principles of Advanced Debate**

A survey of principles of debate, including counterplans, criticism, deep refutation, and other advanced strategies. This course is taught in relationship to current debate topics, and is not limited to participants on the debate team. May be repeated to a total of 12 hours. Variable content course. 3(3-0) F,S

**COM 321 Inter-Collegiate Debating**

Open only to those chosen to debate as University representatives. May be repeated to a total of 12 hours. 1-3 F,S

**COM 322 Introduction to Argumentation**

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. 3(3-0) F,S

**COM 325 Nonverbal Communication**

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. 3(3-0) F

**COM 326 Effective Listening**

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. 3(3-0) S

**COM 328 Persuasion**

Prerequisite: COM 115. Recommended Prerequisite: COM 209 and COM 210 and MED 120. Modern theories of persuasion with some evaluation of specific case studies. 3(3-0) F,S

**COM 331 Employment Interviewing**

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 questions, 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. 1(1-0) D

**COM 332 Small Group Communication**

Prerequisite: COM 115; and Communication majors/minors must be admitted to degree program. Recommended Prerequisite: COM 209 and COM 210 and MED 120. Basic theory and techniques of oral interaction in group activities. 3(3-0) F

**COM 336 Communication in Organizations**

Prerequisite: COM 115; and Communication majors/minors must be admitted to degree program. Recommended Prerequisite: COM 209 and COM 210 and MED 120. 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. 3(3-0) F,S

**COM 350 The Rhetorical Tradition and Contemporary Applications**

Prerequisite: COM 115; and Communication majors/minors must be admitted to degree program. Recommended Prerequisite: COM 209 and COM 210 and MED 120. A survey of rhetorical theories and methods from the classical period until present. The relevance of the rhetorical tradition to contemporary communication theory and practice is stressed. 3(3-0) F,S

**COM 360 Introduction to Intercultural Communication**

Prerequisite: COM 115; and Communication majors/minors must be admitted to degree program. Recommended Prerequisite: COM 209 and COM 210 and MED 120. This course investigates the nature of communication between people from different cultures and nations. 3(3-0) S

**COM 379 Writing for Public Relations**

Recommended prerequisite: JRN 270. Study and preparation of copy for press releases, newsletters, brochures, annual reports, and other written public relations communications. 3(3-0) F,S

**COM 390 Communication and Aging**

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. 3(3-0) D

**COM 397 Topics in Communication**

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. 1-3 D

**COM 405 Interpersonal Communication**

Prerequisite: COM 115; and Communication majors/minors must be admitted to degree program. Recommended Prerequisite: COM 209 and COM 210 and MED 120. A survey of contemporary interpersonal communication theories and issues within a variety of contexts. 3(3-0) F

**COM 417 Teaching of Speech and Theatre**

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. Identical with THE 417. Cannot receive credit for both COM 417 and THE 417. 3(3-0) F

**COM 436 Communication and Leadership**

Prerequisite: COM 115; and 60 hours; and 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. 3(3-0) S

**COM 439 Techniques and Cases in Public Relations**

Prerequisite: COM 210 and COM 309; Communication majors/minors must be admitted to degree program. Recommended Prerequisite: COM 336. Communication theories and techniques of message preparation as applied to the function of organizational promotion. 3(3-0) F,S

**COM 449 Communication Programs and Issues Management**

Prerequisite: COM 210 and COM 336 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. 3(3-0) F,S

**COM 490 Supervised Teaching (Secondary Speech and Theatre)**

Prerequisite: COM 417; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches speech and theatre 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. May not receive credit for both COM 490 and THE 490. Supplemental course fee. 6 F,S

**COM 491 Supervised Teaching (Secondary Speech and Theatre)**

Prerequisite: Concurrent enrollment in COM 490. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. May not receive credit for both COM 491 and THE 491. Supplemental course fee. 6 F,S

**COM 493 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**COM 494 Conflict Capstone**

Prerequisite: COM 205 and COM 511 and COM 521; and admission to the certificate program in Conflict and Dispute Resolution; and at least one certificate elective course. This course allows students an applied opportunity to integrate theoretical material on conflict and dispute resolution with information on a variety of contexts in which conflict occurs. 1(1-0) D

**COM 495 Communication Internship**

Prerequisite: Program of study in Communication major or minor or Undergraduate Certificate in Conflict and Dispute Resolution; 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 Internship Coordinator. No more than three hours may be applied to a Communication minor. No more than one hour may be applied to the Undergraduate Certificate in Conflict and Dispute Resolution. 1-6 F,S

**COM 496 Readings in Communication and Persuasion**

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. 2-3 F,S

**COM 499 Program Assessment**

Prerequisite: permission of instructor. Required assessment of programs and public affairs activity 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 including report of public affairs project and 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. 0(0-0) D

**COM 500 Service Learning in Communication**

Prerequisite: permission of instructor and concurrent enrollment 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. May be taught concurrently with COM 600. Cannot receive credit for both COM 600 and COM 500. 1 F,S

**COM 506 Family Communication**

This course is intended to provide students with an in-depth examination of communication as it functions in family systems. May be taught concurrently with COM 607. Cannot receive credit for both COM 607 and COM 506. 3(3-0) D

**COM 507 Health Communication and Culture**

The examination of intercultural communication concepts in the health care context. Emphasis will be on understanding the health needs of diverse populations, Western health practices, non-Western health practices, and the conflicts that can emerge when cultures collide. May be taught concurrently with COM 604. Cannot receive credit for both COM 507 and COM 604. 3(3-0), FE

**COM 508 Patient-Provider Communication**

This course explores the nature of patient-provider interactions in health care contexts. Emphasis is placed on traditional and non-traditional health care providers, their patients, and interpersonal communication theories specific to health care interactions. May be taught concurrently with COM 608. Cannot receive credit for both COM 508 and COM 608. 3(3-0), SO

**COM 509 Proseminar in Public Relations**

Prerequisite: permission of instructor. Readings and applications in chosen areas of professional communication practice. May be repeated once for credit. Variable content course. May be taught concurrently with COM 609. Cannot receive credit for both COM 609 and COM 509. 3(3-0) D

**COM 511 Conflict and Communication**

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. May be taught concurrently with COM 611. Cannot receive credit for both COM 611 and COM 511. 3(3-0) F

**COM 512 Communication and Diversity in the Workplace**

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. May be taught concurrently with COM 617. Cannot receive credit for both COM 617 and COM 512. 3(3-0) D

**COM 513 Ethical Issues in Communication**

Ethical theories and justification models are studied and then related to ethical decision making in a variety of communication contexts, including interpersonal communication, group communication, organizational communication, and public communication. The course will examine the components of good ethical decision making in communication, as well as obstacles that can stand in the way of responsible choices. May be taught concurrently with COM 619. Cannot receive credit for both COM 619 and COM 513. 3(3-0) D

**COM 521 Communication, Mediation, and Negotiation**

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. May be taught concurrently with COM 621. Cannot receive credit for both COM 621 and COM 521. 3(3-0) S

**COM 532 Teaching Debate**

Prerequisite: COM 322. This course prepares the student to teach various forms of debate in a high school setting. It will explore all major forms of high school debate, including CX Policy Debate, L/D Debate, parliamentary, and Public Forum debate. May be taught concurrently with COM 631. Cannot receive credit for both COM 631 and COM 532. 3(3-0) F

**COM 534 Teaching Individual Events**

Prerequisite: THE 310. This course prepares the student to teach various individual events common in a high school setting. It will explore all major high school individual events, including Foreign and Domestic Extemporaneous Speaking, Original Oratory, Poetry, Prose, Dramatic Interpretation, Humorous Interpretation, Radio Speaking, Storytelling, and Student Congress. May be taught concurrently with COM 633. Cannot receive credit for both COM 633 and COM 534. 3(3-0) S

**COM 536 Directing Forensics**

Prerequisite: COM 532 and COM 534. Problems in coaching and conducting forensic contests. May be taught concurrently with COM 635. Cannot receive credit for both COM 635 and COM 536. 2(2-0) D

**COM 550 Political Communication**

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. May be taught concurrently with COM 650. Cannot receive credit for both COM 650 and COM 550. 3(3-0) F

**COM 566 Social Movement Communication**

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. May be taught concurrently with COM 660. Cannot receive credit for both COM 660 and COM 566. 3(3-0) SE

**COM 597 Studies in Communication Theory and Practice**

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. May be taught concurrently with COM 698. Cannot receive credit for both COM 698 and COM 597. 3(3-0) D

**COM 600 Service Learning in Communication Graduate Study**

Prerequisite: permission of instructor and concurrent enrollment 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. May be taught concurrently with COM 500. Cannot receive credit for both COM 600 and COM 500. 1, F, S

**COM 604 Health Communication and Culture**

The examination of intercultural communication concepts in the health care context. Emphasis will be on understanding the health needs of diverse populations, Western health practices, non-Western health practices, and the conflicts that can emerge when cultures collide. May be taught concurrently with COM 507. Cannot receive credit for both COM 604 and COM 507. 3(3-0), FE

**COM 607 Family Communication**

This course is intended to provide students with an in-depth examination of communication as it functions in family systems. May be taught concurrently with COM 506. Cannot receive credit for both COM 506 and COM 607. 3(3-0), D

**COM 608 Patient-Provider Communication**

This course explores the nature of patient-provider interactions in health care contexts. Emphasis is placed on traditional and non-traditional health care providers, their patients, and interpersonal communication theories specific to health care interactions. May be taught concurrently with COM 508. Cannot receive credit for both COM 608 and COM 508. 3(3-0), SO

**COM 609 Proseminar in Public Relations**

Prerequisite: permission of instructor. Readings and applications in chosen areas of professional communication practice. May be repeated once for credit. Variable content course. May be taught concurrently with COM 509. Cannot receive credit for both COM 509 and COM 609. 3(3-0), D

**COM 611 Conflict and Communication**

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. May be taught concurrently with COM 511. Cannot receive credit for both COM 511 and COM 611. 3(3-0), F

**COM 617 Communication and Diversity in the Workplace**

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. May be taught concurrently with COM 512. Cannot receive credit for both COM 512 and COM 617. 3(3-0), D

**COM 619 Ethical Issues in Communication**

Ethical theories and justification models are studied and then related to ethical decision making in a variety of communication contexts, including interpersonal communication, group communication, organizational communication, and public communication. The course will examine the components of good ethical decision making in communication, as well as obstacles that can stand in the way of responsible choices. May be taught concurrently with COM 513. Cannot receive credit for both COM 513 and COM 619. 3(3-0), D

**COM 621 Communication, Mediation, and Negotiation**

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. May be taught concurrently with COM 521. Cannot receive credit for both COM 521 and COM 621. 3(3-0), S

**COM 631 Teaching Debate**

This course prepares the student to teach various forms of debate in a high school setting. It will explore all major forms of high school debate, including CX Policy Debate, L/D Debate, parliamentary, and Public Forum debate. May be taught concurrently with COM 532. Cannot receive credit for both COM 532 and COM 631. 3(3-0), F

**COM 633 Teaching Individual Events**

This course prepares the student to teach various individual events common in a high school setting. It will explore all major high school individual events, including Foreign and Domestic Extemporaneous Speaking, Original Oratory, Poetry, Prose, Dramatic Interpretation, Humorous Interpretation, Radio Speaking, Storytelling, and Student Congress. May be taught concurrently with COM 534. Cannot receive credit for both COM 534 and COM 633. 3(3-0), S

**COM 635 Directing Forensics**

Problems in coaching and conducting forensic contests. May be taught concurrently with COM 536. Cannot receive credit for both COM 536 and COM 635. 2(2-0), D

**COM 650 Political Communication**

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. May be taught concurrently with COM 550. Cannot receive credit for both COM 550 and COM 650. 3(3-0), F

**COM 660 Social Movement Communication**

Examination of social movement communication with emphasis on functionalist, dramaturgic, 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. May be taught concurrently with COM 566. Cannot receive credit for both COM 566 and COM 660. 3(3-0), SE

**COM 698 Studies in Communication Theory and Practice**



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. May be taught concurrently with COM 597. Cannot receive credit for both COM 597 and COM 698. 3(3-0), D

**COM 701 Introduction to Graduate Studies**

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. 1(1-0), F

**COM 702 Theory and Research in Communication**

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. 3(3-0), F

**COM 705 Health Communication**

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. 3(3-0), D

**COM 706 Rhetorical Theory**

The study of rhetorical theories from the pre-Socratic period to the contemporary period. 3(3-0), F

**COM 710 Contemporary Communication Education**

Examination of current practices and trends in Communication Education. Graduate teaching assistants in communication are required to take this course during the first semester of the assistantship. Course is only open to graduate teaching assistants in the Department of Communication. 3(2-2), F,S

**COM 712 Quantitative Analysis in Communication Research**

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. 3(3-0), D

**COM 713 Media Resources for Organizations**

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. 3(3-0), D

**COM 714 Qualitative Analysis in Communication Research**

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. 3(3-0), S

**COM 716 Rhetorical Analysis in Communication Research**

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. 3(3-0), D

**COM 718 Applied Communication Research Methods**

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. 3(3-0), D

**COM 722 Argumentation as Communication**

Argumentation as related to decision making, conflict resolution and negotiation in business, industry, government, and education. 3(3-0), D

**COM 724 Theories of Interpersonal Communication**

Topics include theories, concepts, models of interpersonal communication, interpersonal discourse, relationships, resolving conflicts, verbal message analysis, interpreting nonverbal message. 3(3-0), D

**COM 732 Theories and Concepts of Small Group Communication**

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. 3(3-0), D

**COM 736 Concepts and Analysis of Communication in Organizations**

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. 3(3-0), D

**COM 739 Concepts and Analysis of Public Relations**

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. 3(3-0), D

**COM 795 Communication Internship**

Prerequisite: 12 graduate credit hours in Communication; and 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. 1-6, F,S

**COM 796 Independent Study**

Prerequisite: permission of advisor. Study may be reading project or a practical application of theories. May be repeated to a maximum of 4 hours. 1-4, F,S

**COM 797 Seminar: Communication Theory**

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. 3(3-0), D

**COM 799 Master's Thesis**

Prerequisite: completion of 9 graduate credit hours in communication; and permission of the Director of Graduate Studies and admission to the thesis option; and complete 3 graduate hours in research methods or be concurrently enrolled in one of the following courses: COM 712, COM 714, COM 716, or COM 718. Independent research and study connected with preparation of thesis. 1-6, F,S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Department of English

## Department of English

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Email: [English@missouristate.edu](mailto:English@missouristate.edu)  
Website: <http://english.missouristate.edu>  
Department Head: Professor W.D. Blackmon, Ph.D.

### Faculty (as of July 15, 2011)

**Distinguished Professor:** Joel Chaston, Ph.D.

**Professors:** James Baumlín, Ph.D.; Mary F. (Tita) Baumlín, Ph.D.; Christina Biava, Ph.D.; Marcus Cafagña, M.F.A.; Michael Ellis, Ph.D.; Jane Hoogestraat, Ph.D.; Judith John, Ph.D.; Etta M. Madden, Ph.D.; Adele S. Newson-Horst, Ph.D.; Yili Shi, Ph.D.; Jean Stringam, Ph.D.; Kristene S. Sutliff, Ph.D.; Margaret Weaver, Ph.D.

**Associate Professors:** Lanette Cadle, Ph.D.; Matthew Calihman, Ph.D.; Keri Franklin, Ph.D.; Lyn Gattis, Ph.D.; Rachel Gholson, Ph.D.; Marianthe Karanikas, Ph.D.; Linda Moser, Ph.D.; Shannon Wooden, Ph.D.

**Assistant Professors:** Kenneth Gillam, Ph.D.; Lanya Lamouria, Ph.D.

**Senior Instructors:** R. Magdalena Berry, M.A.; Mara Cohen-Ioannides, M.A.; Tracy Dalton, M.A.; Earl G. Holmer, M.A.; Richard L. Neumann, Ph.D.; Angelia M. Northrip-Rivera, M.A.; Michael Stowe, M.A.; John Turner, M.A.

**Instructors:** Sara Burge, M.F.A.; Jennifer Edwards, M.A.; Lori Rogers, M.A.

**Emeritus Professors:** Robert Beckett, Ph.D.; Linda Benson, Ph.D.; Phyllis Bixler, Ph.D.; Michael D. Burns, M.F.A.; J. Clark Closser, Ph.D.; Carter M. Cramer, Ph.D.; Wesley E. Hall, Ed.D.; Leigh Henson, Ph.D.; Donald R. Holliday, Ph.D.; James T. Jones, Ph.D.; Mareta Williams Pons, M.A.; Harriet Shirley, M.A.; Mark Trevor Smith, Ph.D.; Roland Sodowsky, Ph.D.; Myron Taylor, Ph.D.; Richard M. Turner, Ph.D.

**Emeritus Senior Instructor:** Virginia Scott-Hendrickson, M.A.

### Accreditation

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.

### Fine Arts Courses

Fine Arts courses are available. Refer to the Bachelor of Arts degree requirements in the specific [Degrees, Programs and Requirements](#) section of the catalog for a listing of the courses.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

**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.

**General Education Course Restriction:** With the exception of ENG 310 and ENG 321, English courses counted towards General Education requirements may not also be used to meet the major requirements, minor requirements, or Fine Arts requirement on the Bachelor of Arts degree.

**Bachelor of Arts Fine Arts 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.

**Restriction 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.

### Graduate Programs

The following graduate programs are available:

English (Master of Arts); Writing (Master of Arts); and Secondary Education with an option in English (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

**University Certificate (graduate)**

Graduate-level certificate programs are available in Ozarks Studies and in Teaching English to Speakers of Other Languages. Refer to the Graduate Catalog for more information.

## Majors

### English

Bachelor of Science in Education  
(Certifiable grades 9-12)

- A. General Education Requirements - see [General Education Program 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: ENG 283(3), 354(3), 355(3), 483(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 complete 12 hours of composition and rhetoric to meet certification requirements. This requirement is normally met by the completion of Writing I and Writing II, ENG 235 and ENG 520. Students with less than 12 hours of composition and rhetoric may complete ENG 203, 210, 215, 221, 310 or 321 to meet this requirement.
- C. Professional Education courses: ENG 405(3), ENG 432(5-6), ENG 433(5-6); and the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (36 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. ENG 301(3), Seminar in English Studies and Public Affairs
  - 8. One course from: ENG 500(3), 501(3), 503(3), 506(3) for a total of not fewer than 36 hours
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### English/Literature Option

Bachelor of Arts

- A. General Education Requirements - see [General Education Program 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), 483(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. Three hours of English electives for a total of not fewer than 36 hours, not including ENG 110, 210, 221, 310
  - 6. ENG 301(3), Seminar in English Studies and Public Affairs
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Professional Writing

Bachelor of Arts

### Admission Requirements

Students must have a combined GPA (Missouri State and transfer) of 2.50 or higher or a GPA of 2.75 or higher for the most recent 30 hours of course work in order to be admitted to the degree program.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (36 hours)
  - 1. ENG 321(3), 373(3), 377(3), 421(3), 487(3), 500(3), 574(3)
  - 2. One course from: ENG 235(3), 390(3), 491(3)
  - 3. One course from: ENG 312(3), 340(3), 341(3), 350(3), 351(3)
  - 4. Three courses from: ENG 422(3), 473(3), 570(3), 575(3); or approved upper-division cognate courses for a total of not fewer than 36 hours
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Professional Writing

Bachelor of Science

#### Admission Requirements

Students must have a combined GPA (Missouri State and transfer) of 2.50 or higher or a GPA of 2.75 or higher for the most recent 30 hours of course work in order to be admitted to the degree program.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (36 hours)
  - 1. ENG 321(3), 373(3), 377(3), 421(3), 473(3), 487(3), 500(3), 574(3)
  - 2. One course from: ENG 235(3), 312(3), 340(3), 341(3), 350(3), 351(3), 390(3), 491(3)
  - 3. Three courses from: ENG 422(3), 570(3), 575(3); or approved upper-division cognate courses for a total of not fewer than 36 hours
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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(s) (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 235(3)
- 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 235(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), 362(3), 512(3)
- D. One course from: ENG 205(3), 280(3), 350(3), 517(3), for a total of not fewer than 27 hours

#### Folklore

Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)

- A. ENG 283(3), 385(3), 483(3), 485(3)
- B. One course from: ANT 320(3), 510(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) or 591(3); ENG 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)
- B. Two courses from: ENG 422(3), 473(3), 487(3), 500(3), 570(3), 574(3), 575(3) for a total of not fewer than 18 hours

### Writing

Bachelor of Science in Education  
(Non-Certifiable)

- A. ENG 205(3), 215(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. Students contemplating seeking a Bachelor of Science in Education degree must seek the advice of an advisor.

## English Courses

### ENG 100 Introduction to College Composition

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. 3(3-0) F,S

### ENG 110 Writing I

Prerequisite: appropriate placement score or ENG 100. General Education Course (Basic Required Courses). Critical reading and writing skills applicable to writing within and beyond the college community. Emphasis on composition processes, research methods, argumentation of diverse issues, and collaborative learning, such as peer review. 3(3-0) F,S

### ENG 131 Introduction to Careers in Technical and Professional Writing

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. 1(1-0) S

### ENG 184 Mini Literature

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. 1(1-0) F,S

### ENG 190 Language Skills

Development of specific writing skills in selected areas of composition, such as sentence grammar and structure, punctuation and capitalization, 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. 1(1-0) F,S

### ENG 191 Grammar Skills

Development of specific skills in American English grammar (including sentence structure, punctuation, capitalization, spelling, and diction). Students will explore and discuss grammar and usage in written communication. Not a composition course. Cannot be used to satisfy any General Education requirement in English or any requirement in the Bachelor of Science in Education degree. 1(1-0) D

### ENG 200 Introduction to Literature

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F,S

### ENG 203 Creative Writing: Poetry

Prerequisite: ENG 110. General Education Course (Self-Understanding/Creativity and Vision Perspective). Introduction to the theory, technique, and terminology of writing poetry, and practical experience in writing in the form. 3(3-0) F,S

### ENG 205 Creative Writing: Nonfiction

Prerequisite: ENG 110. General Education Course (Self-Understanding/Creativity and Vision Perspective). An introduction to writing creative nonfiction, including critical reading in the genre. 3(3-0) F,S

**ENG 210 Writing II: Academic Writing**

Prerequisite: 30 hours and ENG 110 or equivalent. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

**ENG 215 Creative Writing: Short Story**

Prerequisite: ENG 110. General Education Course (Self-Understanding/Creativity and Vision Perspective). Introduction to the theory, technique, and terminology of short story writing, and practical experience in writing in the form. 3(3-0) F,S

**ENG 216 Introduction to the Graphic Novel**

Prerequisite: ENG 110. Introduction to the literature, theory, technique, and terminology of graphic narrative and practical experience in the writing of graphic narrative. 3(3-0) F

**ENG 221 Writing II: Writing for the Professions**

Prerequisite: 30 hours and ENG 110 or equivalent. General Education Course (Basic Required Courses). 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, including multicultural consideration; analytical reading, critical thinking, research methods, and clear writing, with attention to the ethical dimensions of workplace writing in general. 3(3-0) F,S

**ENG 225 Creative Writing: Playwriting**

Prerequisite: ENG 110. Problems in playwriting. 3(3-0) F,S

**ENG 230 Introductory Readings in Literature**

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. 3(3-0) F,S

**ENG 231 Major Writers of English**

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. 3(3-0) F,S

**ENG 235 Critical Approaches to Literature**

Prerequisite: ENG 110. Writing analytical papers employing a variety of critical methods of reading and interpreting poetry, fiction, and drama. 3(3-0) F,S

**ENG 280 Short Story**

Prerequisite: ENG 110. Analysis and appreciation of the short story, and the study of its development. 3(3-0) F,S

**ENG 283 Folklore**

Prerequisite: ENG 110 or equivalent. Reading and examination of folklore as national or international cultural holding material will serve to introduce research methods of the discipline and major genres of folklore: folk narrative, folk song, and material culture. 3(3-0) F

**ENG 285 Subjects in Folklore**

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. 1(1-0) F,S

**ENG 287 Life Stages in Literature**

Prerequisite: ENG 110. General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

**ENG 291 Introduction to Teaching English to Speakers of Other Languages TESOL**

Prerequisite: ENG 110 and 30 hours; and concurrent enrollment 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. 1(1-0) S

**ENG 296 Introduction to Linguistics**

Prerequisite: ENG 110. General Education Course (Self-Understanding/Social-Behavioral Perspective). 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. Students cannot receive credit for both ENG 296 and ENG 591. 3(3-0) F,S

**ENG 300 Service Learning in English**

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. 1 F,S

**ENG 301 Seminar in English Studies and Public Affairs**

Prerequisite: ENG 235. Explores how literature shapes and is shaped by public debates, cultural heritages, and community needs.

Course Unit 1, "Writers, Writing, and Leadership," examines writers' and literary institutions' interventions in crises of leadership, types of writing that have developed to fill voids in leadership, and/or, literary representations of leadership. Unit 2, "Writing Cultures and Intercultural Encounters," considers writers' efforts to imagine or represent cultures and cross-cultural relations. Unit 3, "Texts and Their Communities," focuses on the relations between texts and their audiences, the development of literary communities and institutions, and/or the process of writing or editing a text for a particular local community. 3(3-0) F,S

**ENG 303 Creative Writing: Poetry II**

Prerequisite: ENG 203. An intermediate course, aimed at developing skills and extending knowledge begun in ENG 203. 3(3-0) F,S

**ENG 310 Writing II Writing for Graduate and Professional Schools**

Prerequisite: ENG 110 and 45 hours. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

**ENG 312 Introduction to Shakespeare**

Prerequisite: ENG 110. Selected representative plays and poems of Shakespeare. 3(3-0) F,S

**ENG 315 Creative Writing: Fiction II**

Prerequisite: ENG 215. Intermediate-level work in short story writing. Introduction to the theory, techniques, and terminology of novella and novel writing. Individual conferences. 3(3-0) F,S

**ENG 321 Writing II Beginning Technical Writing**

Prerequisite: 45 hours and ENG 110 or equivalent. General Education Course (Basic Required Courses). Practice in application letters, resumes, brochures, instructions, graphic illustrations, and researched writing. Students experience community engagement through client-based projects such as manuals or other professional documents. Students also practice audience analysis, including multicultural considerations. Emphasis on presenting information clearly and concisely, and ethically in both prose and visuals. 3(3-0) F,S

**ENG 325 Creative Writing Playwriting II**

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. 3(3-0) F

**ENG 330 Studies in Literature**

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. 3(3-0) F,S

**ENG 334 Literature for Children**

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. 3(3-0) F,S

**ENG 336 Literature for Middle School**

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. 3(3-0) F,S

**ENG 338 Literature for Young Adults**

Prerequisite: ENG 110 and 60 hours. 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. 3(3-0) F

**ENG 339 Writing for Children and Young Adults**

Prerequisite: ENG 334 or ENG 336 or ENG 338. 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. 3(3-0) F

**ENG 340 Survey of English Literature I**

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in English literature from the beginning to 1790. 3(3-0) F,S

**ENG 341 Survey of English Literature II**

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in English literature from 1790 to the present. 3(3-0) F,S

**ENG 350 Survey of American Literature I**

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in American literature from the beginning to 1870. 3(3-0) F,S

**ENG 351 Survey of American Literature II**

Prerequisite: ENG 110. Representative authors, movements, ideas, and styles in American literature from 1870 to the present. 3(3-0) F,S

**ENG 354 Ethnic American Literature**

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. 3(3-0) F

**ENG 355 African-American Literature**

Prerequisite: ENG 110. Survey of representative works of fiction, poetry, personal narratives, and essays in the context of social and cultural movements. 3(3-0) S

**ENG 360 Survey of European Literature I**

Prerequisite: ENG 110. European literature beginning with the Bible and Greek works, and ending at 1700. (Excludes British literature) 3(3-0) D

**ENG 361 Survey of European Literature II**

Prerequisite: ENG 110. European literature from 1700 to the present. (Excludes British literature) 3(3-0) D

**ENG 362 Non-European World Literature**

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. 3(3-0) D

**ENG 363 Introduction to African Literature**

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. 3(3-0) D

**ENG 365 Modern Poetry**

Prerequisite: ENG 110. Twentieth century poetry in English, with emphasis upon major poets and poems, both modernist and post-modernist. 3(3-0) F

**ENG 366 Science Fiction and Fantasy Literature**

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. 3(3-0) S

**ENG 373 Writing with Technology**

Prerequisite: ENG 110 or equivalent; CSC/CIS 101 or equivalent; and 45 hours. Explores the ethical use of software and hardware tools that professional writers use in the workplace to create and distribute technical information. Students will produce projects to gain a hands-on understanding of the tools used in developing online help and printed documentation, working with graphics, and other relevant areas. 3(3-0) F,S

**ENG 377 Scientific and Technical Editing**

Prerequisite: ENG 110 and 60 hours. The process of creating a new piece of writing by clarifying, reducing, expanding, and synthesizing materials written by others. Emphasis on audience adaptation; professional ethics; and document organization, style, and mechanics through a client-based editing project. Focus on building author-editor relationships while managing the editing cycle. 3(3-0) F,S

**ENG 380 Introduction to Women's Literature**

Prerequisite: ENG 110. General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

**ENG 385 Ozarks Traditions**

Prerequisite: ENG 283. 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. 3(3-0) S

**ENG 386 Literature of the Ozarks**

Prerequisite: ENG 110. Survey of representative works of fiction and poetry focusing on the Ozarks or Ozarks characters. 3(3-0) F,S

**ENG 390 Modern English Grammar**

Prerequisite: 60 hours. The structure of American English, with emphasis on current descriptive approaches to English grammar. 3(3-0) F,S

**ENG 405 Teaching of Middle and High School English**

Prerequisite: 30 hours in English and admitted to teacher education program. 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. 3(2-2) F,S

**ENG 421 Advanced Technical Writing**

Prerequisite: ENG 321. Practice in planning and managing projects. Emphasis is researched-based audience analysis, document design, and usability testing, including ethical considerations. Students complete a client-based design project and supporting documents. Emphasis on practical and marketable skills. 3(3-0) F,S

**ENG 422 Career Focus in Professional Writing**

Prerequisite: ENG 373 and ENG 377 and ENG 421. A capstone course emphasizing reflection and synthesis of concepts from previous courses. Focus on skills associated with the smooth transition from an academic study of professional writing to the professional workforce. Students prepare a portfolio that demonstrates their integration of course and program outcomes and complete individual research projects related to the three pillars of the Public Affairs mission, including topics ranging from ethical and legal issues to globalization and localization. 3(3-0) F,S



**ENG 432 Supervised Teaching (Secondary English)**

Prerequisite: ENG 405; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches English 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**ENG 433 Supervised Teaching (Secondary English)**

Prerequisite: concurrent enrollment in ENG 432. Student observes then teaches under the direction of the cooperating teacher and the university supervisor. Student participates in school-related activities and attends both individual and group conferences. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**ENG 434 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**ENG 455 African-American Drama**

Prerequisite: ENG 110 and 60 hours. Study of intersections of dramatic art and politics including survey of theatrical styles such as realism, surrealism, agit-prop, and theatre-of-the-absurd. 3(3-0) D

**ENG 473 Writing with Technology II**

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, web-page creation, single sourcing, and accessibility. 3(3-0) F

**ENG 483 Folklore and Literature**

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. 3(3-0) S

**ENG 485 Study of American Folklore**

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. 3(3-0) F

**ENG 487 Analysis of Scientific Literature**

Prerequisite: ENG 110 and 60 hours. Examines the history and development of scientific writing. Students survey a broad selection of scientific literature to better understand the cultural and ethical implications of science writing as they apply to both the field of scientific and technical writing and the broader society. 3(3-0) F

**ENG 491 History of the English Language**

Prerequisite: 60 hours. 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. 3(3-0) S

**ENG 494 Dialects of American English**

Prerequisite: 60 hours. Regional, social, and ethnic variation in American English. Incorporates linguistic geography and sociolinguistic approaches, and considers relevant political and educational issues. 3(3-0) F

**ENG 500 Advanced Writing: Non-Fiction**

Prerequisite: ENG 235 or ENG 321 or JRN 374 or JRN 375. 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. May be taught concurrently with ENG 604. Cannot receive credit for both ENG 604 and ENG 500. 3(3-0) F,S

**ENG 501 Advanced Writing: Fiction**

Prerequisite: ENG 315. 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. May be taught concurrently with ENG 601. Cannot receive credit for both ENG 601 and ENG 501. 3(3-0) F

**ENG 503 Advanced Writing: Poetry**

Prerequisite: ENG 303. 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. May be taught concurrently with ENG 607. Cannot receive credit for both ENG 607 and ENG 503. 3(3-0) F

**ENG 505 Methods in Teaching English to Speakers of Other Languages TESOL**



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. May be taught concurrently with ENG 605. Cannot receive credit for both ENG 605 and ENG 505. 3(3-0) S

**ENG 506 Advanced Writing: Drama**

Prerequisite: ENG 225. 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. May be taught concurrently with ENG 606. Cannot receive credit for both ENG 606 and ENG 506. 3(3-0) S

**ENG 508 Creative Writing Project**

Prerequisite: ENG 500 or ENG 501 or ENG 503. Directed development of a substantial work of poetry, fiction, or non-critical prose, prepared for publication. May be taught concurrently with ENG 609. Cannot receive credit for both ENG 609 and ENG 508. 3(3-0) F,S

**ENG 510 Chaucer**

Prerequisite: 60 hours. The Canterbury Tales and other works by Chaucer; social, historical, literary, and linguistic background of late Middle Ages. May be taught concurrently with ENG 615. Cannot receive credit for both ENG 615 and ENG 510. 3(3-0) F

**ENG 512 The British Novel**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 618. Cannot receive credit for both ENG 618 and ENG 512. 3(3-0) F

**ENG 513 Shakespeare**

Prerequisite: 60 hours. Selected plays and poems of Shakespeare, representative criticism, and Shakespeare's theatre and milieu. May be taught concurrently with ENG 613. Cannot receive credit for both ENG 613 and ENG 513. 3(3-0) F

**ENG 514 British Drama**

Prerequisite: 60 hours. Representative British plays from pre-Renaissance times to present, including such authors as Marlowe, Congreve, Wilde, and Shaw. May be taught concurrently with ENG 614. Cannot receive credit for both ENG 614 and ENG 514. 3(3-0) S

**ENG 516 Mark Twain**

Prerequisite: 60 hours. Twain's life and work (selected novels, short pieces, travelogues, autobiography, and criticism) studied as pivotal between an old and new America. May be taught concurrently with ENG 616. Cannot receive credit for both ENG 616 and ENG 516. 3(3-0) S

**ENG 517 The American Novel**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 617. Cannot receive credit for both ENG 617 and ENG 517. 3(3-0) S

**ENG 519 American Drama**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 619. Cannot receive credit for both ENG 619 and ENG 519. 3(3-0) F

**ENG 520 Composition and Rhetoric in High School and Junior College**

Prerequisite: ENG 235; and admitted to the teacher education program. 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. May be taught concurrently with ENG 629. Cannot receive credit for both ENG 629 and ENG 520. 3(3-0) F,S

**ENG 521 Writing for Elementary and Middle School Teachers**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 631. Cannot receive credit for both ENG 631 and ENG 521. 3(3-0) F

**ENG 523 Writing Center Theory and Practice**

Prerequisite: 60 hours. Collaborative workshop designed to prepare individuals for teaching one-to-one in a writing center environment. May be taught concurrently with ENG 623. Cannot receive credit for both ENG 623 and ENG 523. 3(3-0) S

**ENG 525 History of Rhetoric**

Prerequisite: 60 hours. Study of historical trends important to the development of written discourse and writing instruction. Survey of theory from classical antiquity through the nineteenth century. May be taught concurrently with ENG 627. Cannot receive credit for both ENG 627 and ENG 525. 3(3-0) S

**ENG 526 Modern Rhetorical Theory**

Prerequisite: 60 hours. A continuation of ENG 525. Study of twentieth-century rhetorical theory and its applications in literary criticism, literacy, technical writing, and/or composition. May be taught concurrently with ENG 628. Cannot receive credit for both ENG 628 and ENG 526. 3(3-0) S

**ENG 533 Studies in Children's Literature**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 633. Cannot receive credit for both ENG 633 and ENG 533. 3(3-0) D

**ENG 534 Historical Perspectives in Children's Literature**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 634. Cannot receive credit for both ENG 634 and ENG 534. 3(3-0) D

**ENG 536 Young Adult Novel**

Prerequisite: 60 hours. Study of various kinds of novels written for young people; includes historical perspectives; emphasizes developments since the "New Realism" of the 1960s. May be taught concurrently with ENG 636. Cannot receive credit for both ENG 636 and ENG 536. 3(3-0) S

**ENG 539 Advanced Writing for Children and Young Adults**

Prerequisite: ENG 339. 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 taught concurrently with ENG 639. Cannot receive credit for both ENG 639 and ENG 539. 3(3-0) S

**ENG 541 Renaissance Literature**

Prerequisite: 60 hours. Sidney, Spenser, Donne, Milton, and other major non-dramatic writers; literary developments, 1500-1660. May be taught concurrently with ENG 641. Cannot receive credit for both ENG 641 and ENG 541. 3(3-0) S

**ENG 543 Restoration and 18th Century Literature**

Prerequisite: 60 hours. Dryden, Swift, Pope, Johnson, and other significant writers; literary developments, 1660-1798. May be taught concurrently with ENG 643. Cannot receive credit for both ENG 643 and ENG 543. 3(3-0) S

**ENG 544 British Romantic Literature**

Prerequisite: 60 hours. Blake, Wollstonecraft, Dorothy Wordsworth, William Wordsworth, Coleridge, Byron, Mary Shelley, Percy Bysshe Shelley, Keats; cultural backgrounds and literary developments, 1798-1837. May be taught concurrently with ENG 642. Cannot receive credit for both ENG 642 and ENG 544. 3(3-0) F

**ENG 546 Victorian Literature**

Prerequisite: 60 hours. Tennyson, Browning, the Rossettis, Hardy, and other British Victorian writers; literary developments, 1837-1901. May be taught concurrently with ENG 646. Cannot receive credit for both ENG 646 and ENG 546. 3(3-0) F

**ENG 547 Modern British Literature**

Prerequisite: 60 hours. Significant works from several genres by authors such as Conrad, Yeats, Greene, Lessing, and Stoppard; literary developments, 1901-present. May be taught concurrently with ENG 645. Cannot receive credit for both ENG 645 and ENG 547. 3(3-0) S

**ENG 548 Major British Authors**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 649. Cannot receive credit for both ENG 649 and ENG 548. 3(3-0) F

**ENG 553 American Romantic Literature**

Prerequisite: 60 hours. Significant works from several genres by authors such as Cooper, Poe, Irving, Thoreau, Emerson, Hawthorne, Melville, and Whitman; literary developments to 1855. May be taught concurrently with ENG 652. Cannot receive credit for both ENG 652 and ENG 553. 3(3-0) S

**ENG 557 American Realism**

Prerequisite: 60 hours. Significant works from several genres by authors such as Twain, Howells, James, Crane, and Frost; literary developments, 1855-1914. May be taught concurrently with ENG 656. Cannot receive credit for both ENG 656 and ENG 557. 3(3-0) S

**ENG 558 Major American Authors**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 661. Cannot receive credit for both ENG 661 and ENG 558. 3(3-0) F

**ENG 559 Modern American Literature**

Prerequisite: 60 hours. Significant works from several genres by authors such as Fitzgerald, Hemingway, Lowell, Roethke, Bellow, and O'Connor; literary developments, 1914-present. May be taught concurrently with ENG 659. Cannot receive credit for both ENG 659 and ENG 559. 3(3-0) F

**ENG 562 Contemporary American Poetry/Fiction**

Prerequisite: 60 hours. A survey of contemporary American poetry or fiction, which encompasses a selection of significant authors and traces the history and development of various literary theories, schools and movements, from New Criticism through more recent trends in both narrative and lyric modes (poetry) and Post-Modern narrative techniques (fiction). May be taught concurrently with ENG 662. Cannot receive credit for both ENG 562 and ENG 662. 3(3-0) F,S

**ENG 565 Literature and Language Workshop**

Prerequisite: senior 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. May be taught concurrently with ENG 665. Cannot receive credit for both ENG 665 and ENG 565. 1-3 Su

**ENG 568 Major World Authors**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 668. Cannot receive credit for both ENG 668 and ENG 568. 3(3-0) F

**ENG 570 Writing in the Health Professions**

Prerequisite: 60 hours; and ENG 321 or ENG 310 or NUR 472 or equivalent. Rhetorical analysis and production of a broad range of document genres, including public health campaigns, grant proposals, medical reports, and patient information materials. Students research and present their findings on current issues in the field. Emphasis on audience analysis, document design principles, and ethical considerations. May be taught concurrently with ENG 678. Cannot receive credit for both ENG 678 and ENG 570. 3(3-0) S

**ENG 573 Writing for the Web**

Prerequisite: 60 hours. Explores the professional writer's role in creating web pages and sites designed to deliver information. Topics include planning, user analysis, organization, structure, presentation, content development, writing style, and accessibility accommodation. May be taught concurrently with ENG 679. Cannot receive credit for both ENG 573 and ENG 679. 3(3-0) F

**ENG 574 Technical Writing Internship**

Prerequisite: ENG 421 and permission of instructor. Projects in technical writing, combining academic training and supervised work experience in business, industry, government, academia, or nonprofit organizations. Students are required to work a minimum of 135 hours. May be taught concurrently with ENG 694. Cannot receive credit for both ENG 694 and ENG 574. 3(3-0) F,S

**ENG 575 Topics in Professional Writing**

Prerequisite: ENG 421 and 60 hours. Covers a single topic within the field of professional writing. The subject will vary according to student demand and faculty availability. Examples include writing for the legal profession, writing proposals, regulatory writing, developing training materials, and ethics in professional writing. May be repeated to a total of 6 hours when the topic varies. Variable content course. May be taught concurrently with ENG 684. Cannot receive credit for both ENG 684 and ENG 575. 3(3-0) D

**ENG 580 Gender Issues in Language and Literature**

Prerequisite: ENG 110 and 60 hours. 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. May be taught concurrently with ENG 682. Cannot receive credit for both ENG 682 and ENG 580. 3(3-0) F,S

**ENG 583 Themes in Folkloristics**

Prerequisite: 60 hours. 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. May be taught concurrently with ENG 683. Cannot receive credit for both ENG 683 and ENG 583. 3(3-0) F,S

**ENG 585 History of Literary Criticism**

Prerequisite: 60 hours. A survey of the theories of literary critics, such as Sidney, Pope, Coleridge, Eliot, Brooks, Barthes, Eagleton, Kristeva, and Derrida. May be taught concurrently with ENG 687. Cannot receive credit for both ENG 687 and ENG 585. 3(3-0) F

**ENG 590 Grammatical Analysis**

Prerequisite: 60 hours; and ENG 296 or ENG 390 or ENG 591. Advanced study of English morphology and syntax using a variety of current approaches, including phrase-structure, transformational, discourse-based, and semantic-based grammars. May be taught concurrently with ENG 690. Cannot receive credit for both ENG 690 and ENG 590. 3(3-0) S

**ENG 591 Linguistic Theory**

Prerequisite: 60 hours. A specialized survey of linguistics intended for graduate and advanced undergraduate students. Areas covered include, but are not limited to, phonology, morphology, syntax, semantics, discourse, pragmatics, language change, and language variation. Students cannot receive credit for both ENG 296 and ENG 591. May be taught concurrently with ENG 691. Cannot receive credit for both ENG 691 and ENG 591. 3(3-0) F

**ENG 592 Sociolinguistics for Language Teaching**

Prerequisite: 60 hours; and ENG 296 or ENG 390 or ENG 591. 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; and language maintenance and loss. May be taught concurrently with ENG 688. Cannot receive credit for both ENG 688 and ENG 592. 3(3-0) F

**ENG 593 Studies in Linguistics**

Prerequisite: 60 hours; and ENG 296 or ENG 390 or ENG 591. Topics in linguistics including history of linguistics, language acquisition, or transformational grammars. May be repeated to a total of 9 hours if topic is different. May be taught concurrently with ENG 689. Cannot receive credit for both ENG 689 and ENG 593. 3(3-0) F

**ENG 595 Principles of Second Language Acquisition**

Prerequisite: 60 hours and ENG 296 or ENG 390 or ENG 591. 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. May be taught concurrently with ENG 695. Cannot receive credit for both ENG 695 and ENG 595. 3(3-0) F

**ENG 596 Materials and Assessment in Teaching English to Speakers of Other Languages TESOL**

Prerequisite: 60 hours and ENG 595. Practical and theoretical perspectives in specific areas in TESOL, including speaking, grammar, composition, and critical reading. Consideration of material design and student assessment. May be taught concurrently

with ENG 696. Cannot receive credit for both ENG 696 and ENG 596. 3(3-0) S

**ENG 597 Practicum in Teaching English to Speakers of Other Languages TESOL**

Prerequisite: ENG 505 and ENG 596. Application of coursework in TESOL with individualized experience based on students' needs and background, especially in composition, grammar, and pronunciation. May be taught concurrently with ENG 697. Cannot receive credit for both ENG 697 and ENG 597. 1-3 F,S

**ENG 598 Early English Language and Literature**

Prerequisite: 60 hours. 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 teacher certification requirement. May be taught concurrently with ENG 698. Cannot receive credit for both ENG 698 and ENG 598. 3(3-0) F

**ENG 601 Advanced Writing: Fiction**

Group discussion and criticism. Individual writing projects. May be repeated to a total of 6 hours. May be taught concurrently with ENG 501. Cannot receive credit for both ENG 501 and ENG 601. 3(3-0) F

**ENG 604 Advanced Writing: Non-Fiction**

Group discussion and criticism. Individual writing projects. 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. May be taught concurrently with ENG 500. Cannot receive credit for both ENG 500 and ENG 604. 3(3-0) F,S

**ENG 605 Methods in Teaching English to Speakers of Other Languages (TESOL)**

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. May be taught concurrently with ENG 505. Cannot receive credit for both ENG 505 and ENG 605. 3(3-0) S

**ENG 606 Advanced Writing: Drama**

Group discussion and criticism. Individual writing projects. May be repeated to a total of 6 hours. May be taught concurrently with ENG 506. Cannot receive credit for both ENG 506 and ENG 606. 3(3-0) S

**ENG 607 Advanced Writing: Poetry**

Group discussion and criticism. Individual writing projects. May be repeated to a total of 6 hours. May be taught concurrently with ENG 503. Cannot receive credit for both ENG 503 and ENG 607. 3(3-0) F

**ENG 609 Creative Writing Project**

Directed development of a substantial work of poetry, fiction, or non-critical prose, prepared for publication. May be taught concurrently with ENG 508. Cannot receive credit for both ENG 508 and ENG 609. 3(3-0) F,S

**ENG 613 Shakespeare**

Selected plays and poems of Shakespeare, representative criticism, and Shakespeare's theatre and milieu. May be taught concurrently with ENG 513. Cannot receive credit for both ENG 513 and ENG 613. 3(3-0) F

**ENG 614 British Drama**

Representative British plays from pre-Renaissance times to present, including such authors as Marlowe, Congreve, Wilde, and Shaw. May be taught concurrently with ENG 514. Cannot receive credit for both ENG 514 and ENG 614. 3(3-0) S

**ENG 615 Chaucer**

The Canterbury Tales and other works by Chaucer; social, historical, literary, and linguistic background of late Middle Ages. May be taught concurrently with ENG 510. Cannot receive credit for both ENG 510 and ENG 615. 3(3-0) F

**ENG 616 Mark Twain**

Twain's life and work (selected novels, short pieces, travelogues, autobiography, and criticism) studied as pivotal between an old and new America. May be taught concurrently with ENG 516. Cannot receive credit for both ENG 516 and ENG 616. 3(3-0) S

**ENG 617 The American Novel**

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. May be taught concurrently with ENG 517. Cannot receive credit for both ENG 517 and ENG 617. 3(3-0) S

**ENG 618 The British Novel**

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. May be taught concurrently with ENG 512. Cannot receive credit for both ENG 512 and ENG 618. 3(3-0) F

**ENG 619 American Drama**

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. May be taught concurrently with ENG 519. Cannot receive credit for both ENG 519 and ENG 619. 3(3-0) F

**ENG 623 Writing Center Theory and Practice**

Collaborative workshop designed to prepare individuals for teaching one-to-one in a writing center environment. May be taught concurrently with ENG 523. Cannot receive credit for both ENG 523 and ENG 623. 3(3-0) S

**ENG 627 History of Rhetoric**

Study of historical trends important to the development of written discourse and writing instruction. Survey of theory from classical antiquity through the nineteenth century. May be taught concurrently with ENG 525. Cannot receive credit for both ENG 525 and ENG 627. 3(3-0) S

**ENG 628 Modern Rhetorical Theory**

A continuation of ENG 627. Study of twentieth-century rhetorical theory and its applications in literary criticism, literacy, technical writing, and/or composition. May be taught concurrently with ENG 526. Cannot receive credit for both ENG 526 and ENG 628. 3(3-0) S

**ENG 629 Composition and Rhetoric in High School and Junior College**

Prerequisite: Teacher Certification students must be admitted to the teacher education program. 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. May be taught concurrently with ENG 520. Cannot receive credit for both ENG 629 and ENG 520. 3(3-0), F,S

**ENG 631 Writing for Elementary and Middle School Teachers**

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. May be taught concurrently with ENG 521. Cannot receive credit for both ENG 521 and ENG 631. 3(3-0) F

**ENG 633 Studies in Childrens Literature**

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. May be taught concurrently with ENG 533. Cannot receive credit for both ENG 533 and ENG 633. 3(3-0) D

**ENG 634 Historical Perspectives in Childrens Literature**

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. May be taught concurrently with ENG 534. Cannot receive credit for both ENG 534 and ENG 634. 3(3-0) D

**ENG 636 Young Adult Novel**

Study of various kinds of novels written for young people; includes historical perspectives; emphasizes developments since the "New Realism" of the 1960s. May be taught concurrently with ENG 536. Cannot receive credit for both ENG 536 and ENG 636. 3(3-0) S

**ENG 639 Advanced Writing for Children and Young Adults**

Group discussion and criticism. Individual writing projects. May be taught concurrently with ENG 539. Cannot receive credit for both ENG 539 and ENG 639. 3(3-0) S

**ENG 641 Renaissance Literature**

Sidney, Spenser, Donne, Milton, and other major non-dramatic writers; literary developments, 1500-1660. May be taught concurrently with ENG 541. Cannot receive credit for both ENG 541 and ENG 641. 3(3-0) S

**ENG 642 British Romantic Literature**

Blake, Wollstonecraft, Dorothy Wordsworth, William Wordsworth, Coleridge, Byron, Mary Shelley, Percy Bysshe Shelley, Keats; cultural backgrounds and literary developments, 1798-1837. May be taught concurrently with ENG 544. Cannot receive credit for both ENG 544 and ENG 642. 3(3-0) F

**ENG 643 Restoration and 18th Century Literature**

Dryden, Swift, Pope, Johnson, and other significant writers; literary developments, 1660-1798. May be taught concurrently with ENG 543. Cannot receive credit for both ENG 543 and ENG 643. 3(3-0) S

**ENG 645 Modern British Literature**

Significant works from several genres by authors such as Conrad, Yeats, Greene, Lessing, and Stoppard; literary developments, 1901-present. May be taught concurrently with ENG 547. Cannot receive credit for both ENG 547 and ENG 645. 3(3-0) S

**ENG 646 Victorian Literature**

Tennyson, Browning, the Rossetts, Hardy, and other British Victorian writers; literary developments, 1837-1901. May be taught concurrently with ENG 546. Cannot receive credit for both ENG 546 and ENG 646. 3(3-0) F

**ENG 649 Major British Authors**

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. May be taught concurrently with ENG 548. Cannot receive credit for both ENG 548 and ENG 649. 3(3-0) F

**ENG 652 American Romantic Literature**

Significant works from several genres by authors such as Cooper, Poe, Irving, Thoreau, Emerson, Hawthorne, Melville, and Whitman; literary developments to 1855. May be taught concurrently with ENG 553. Cannot receive credit for both ENG 553 and ENG 652. 3(3-0) S

**ENG 656 American Realism**

Significant works from several genres by authors such as Twain, Howells, James, Crane, and Frost; literary developments, 1855-1914. May be taught concurrently with ENG 557. Cannot receive credit for both ENG 557 and ENG 656. 3(3-0) S

**ENG 659 Modern American Literature**

Significant works from several genres by authors such as Fitzgerald, Hemingway, Lowell, Roethke, Bellow, and O'Connor; literary developments, 1914-present. May be taught concurrently with ENG 559. Cannot receive credit for both ENG 559 and ENG 659. 3(3-0) F

**ENG 661 Major American Authors**

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. May be taught concurrently with ENG 558. Cannot receive credit for both ENG 558 and ENG 661. 3(3-0) F

**ENG 662 Contemporary American Poetry/Fiction**

A survey of contemporary American poetry or fiction, which encompasses a selection of significant authors and traces the history and development of various literary theories, schools and movements, from new Criticism through more recent trends in both narrative and lyric modes (poetry) and Post-Modern narrative techniques (fiction). May be taught concurrently with ENG 562. Cannot receive credit for both ENG 562 and ENG 662. 3(3-0) F,S

**ENG 665 Literature and Language Workshop**

Prerequisite: 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. May be taught concurrently with ENG 565. Cannot receive credit for both ENG 665 and ENG 565. 1-3 Su

**ENG 668 Major World Authors**

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. May be taught concurrently with ENG 568. Cannot receive credit for both ENG 568 and ENG 668. 3(3-0) F

**ENG 678 Writing in the Health Professions**

Rhetorical analysis and production of a broad range of document genres, including public health campaigns, grant proposals, medical reports, and patient information materials. Students research and present their findings on current issues in the field. Emphasis on audience analysis, document design principles, and ethical considerations. May be taught concurrently with ENG 570. Cannot receive credit for both ENG 570 and ENG 678. 3(3-0) S

**ENG 679 Writing for the Web**

Explores the professional writer's role in creating web pages and sites designed to deliver information. Topics include planning, user analysis, organization, structure, presentation, content development, writing style, and accessibility accommodation. May be taught concurrently with ENG 573. Cannot receive credit for both ENG 573 and ENG 679. 3(3-0) F

**ENG 682 Gender Issues in Language and Literature**

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. May be taught concurrently with ENG 580. Cannot receive credit for both ENG 580 and ENG 682. 3(3-0) F,S

**ENG 683 Themes in Folkloristics**

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. May be taught concurrently with ENG 583. Cannot receive credit for both ENG 583 and ENG 683. 3(3-0) F,S

**ENG 684 Topics in Professional Writing**

Covers a single topic within the field of professional writing. The subject will vary according to student demand and faculty availability. Examples include writing for the legal profession, writing proposals, regulatory writing, developing training materials, and ethics in professional writing. May be repeated to a total of 6 hours when the topic varies. Variable content course. May be taught concurrently with ENG 575. Cannot receive credit for both ENG 575 and ENG 684. 3(3-0) D

**ENG 687 History of Literary Criticism**

A survey of the theories of literary critics, such as Sidney, Pope, Coleridge, Eliot, Brooks, Barthes, Eagleton, Kristeva, and Derrida. May be taught concurrently with ENG 585. Cannot receive credit for both ENG 585 and ENG 687. 3(3-0) F

**ENG 688 Sociolinguistics for Language Teaching**

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; and language maintenance and loss. May be taught concurrently with ENG 592. Cannot receive credit for both ENG 592 and ENG 688. 3(3-0) F

**ENG 689 Studies in Linguistics**

Topics in linguistics including history of linguistics, language acquisition, or transformational grammars. May be repeated to a total of 9 hours if topic is different. May be taught concurrently with ENG 593. Cannot receive credit for both ENG 593 and ENG 689. 3(3-0) F

**ENG 690 Grammatical Analysis**

Advanced study of English morphology and syntax using a variety of current approaches, including phrase-structure, transformational, discourse-based, and semantic-based grammars. May be taught concurrently with ENG 590. Cannot receive credit for both ENG 590 and ENG 690. 3(3-0) S

**ENG 691 Linguistic Theory**

A specialized survey of linguistics intended for graduate and advanced undergraduate students. Areas covered include, but are



not limited to, phonology, morphology, syntax, semantics, discourse, pragmatics, language change, and language variation. Students cannot receive credit for both ENG 296 and ENG 691. May be taught concurrently with ENG 591. Cannot receive credit for both ENG 591 and ENG 691. 3(3-0) F

**ENG 694 Technical Writing Internship**

Projects in technical writing, combining academic training and supervised work experience in business, industry, government, academia, or nonprofit organizations. Students are required to work a minimum of 135 hours. May be taught concurrently with ENG 574. Cannot receive credit for both ENG 574 and ENG 694. 3(3-0) F,S

**ENG 695 Principles of Second Language Acquisition**

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. May be taught concurrently with ENG 595. Cannot receive credit for both ENG 595 and ENG 695. 3(3-0) F

**ENG 696 Materials and Assessment in Teaching English to Speakers of Other Languages (TESOL)**

Practical and theoretical perspectives in specific areas in TESOL, including speaking, grammar, composition, and critical reading. Consideration of material design and student assessment. May be taught concurrently with ENG 596. Cannot receive credit for both ENG 596 and ENG 696. 3(3-0) S

**ENG 697 Practicum in Teaching English to Speakers of Other Languages (TESOL)**

Application of coursework in TESOL with individualized experience based on students' needs and background, especially in composition, grammar, and pronunciation. May be taught concurrently with ENG 597. Cannot receive credit for both ENG 597 and ENG 697. 1-3 F,S

**ENG 698 Early English Language and Literature**

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 teacher certification requirement. May be taught concurrently with ENG 598. Cannot receive credit for both ENG 598 and ENG 698. 3(3-0) F

**ENG 700 Introduction to Research Methods in English**

Provides an introduction to research methods and writing within the broadly defined discipline of English Studies. It focuses on ways of developing research problems and questions, designing studies, and conducting, reading and evaluating research. Students will also learn to present their research in verbal and written formats including the abstract, proposal, conference presentation, and publishable essay. 3(3-0), F,S

**ENG 702 Service Learning in English II**

Prerequisite: concurrent enrollment in an English Department course designated as a service-learning offering. This service component for an existing course incorporates community service with classroom instruction. It provides an integrated learning experience, addressing the practice of citizenship and promoting an awareness of and participation in public affairs. It includes a minimum of 40 hours of service that benefits an external community organization or public-service provider. Approved service placements and assignments will vary depending on the course topic. May be taken once for credit. 1 F,S

**ENG 703 Practicum in Teaching Composition**

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. 1-3, F,S

**ENG 708 Creative Writing Project II**

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. 3(3-0), S

**ENG 710 Seminar: Fiction**

Significant genres, authors, and developments in prose fiction. May be repeated to a total of 9 hours if topic is different. 3(3-0), F,S

**ENG 711 Seminar: Poetry**

Significant genres, authors, and developments in poetry. May be repeated to a total of 9 hours if topic is different. 3(3-0), F,S

**ENG 712 Seminar: Drama**

Detailed study of selected plays and dramatists. May be repeated to a total of 9 hours if topic is different. 3(3-0), S

**ENG 720 Seminar: Composition Theory**

Detailed study of contemporary composition theory in university freshman writing. Open to all graduate students. Graduate teaching assistants must take ENG 720 during their first year of appointment, unless they have taken ENG 520 as undergraduates. 3(3-0), F

**ENG 721 Theory of Basic Writing**

Study of issues, problems, and pedagogical strategies appropriate to teaching composition to students with limited English proficiency. 3(3-0), S

**ENG 722 Literacy Theory and Composition**

An introduction to literacy theory and its application to the teaching of composition. 3(3-0), F

**ENG 725 Seminar: Composition and Rhetoric**

Topics in the application of rhetorical theory to the teaching of writing. 3(3-0), S

**ENG 726 Issues in Rhetorical/Professional Writing**

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. 3(3-0), F

**ENG 730 Ozarks Writing Project**

Prerequisite: permission of instructor. An intensive course in the writing process and the writing curriculum, designed for experienced K-16 teachers across the disciplines using the National Writing Project model. Readings of current theory and research will be related to participants' experiences as writers and as teachers. May be repeated for up to six hours. 3(3-0), Su

**ENG 735 Seminar: Childrens Literature**

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. 3(3-0), F,S

**ENG 744 Seminar: English Literature Before 1798**

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. 3(3-0), F,S

**ENG 748 Seminar: English Literature After 1798**

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. 3(3-0), F,S

**ENG 757 Seminar: Early American Literature**

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. 3(3-0), F,S

**ENG 758 Seminar: 20th Century American Literature**

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. 3(3-0), F,S

**ENG 770 The Teaching of Technical and Professional Writing**

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. 3(3-0), S

**ENG 771 Professional Writing**

Theory and practice of writing and analyzing documents in business, science, and industry. 3(3-0), F

**ENG 773 Writing for the Computer Industry**

Study and practice in developing user-centered computer system documentation. Topics include working with workplace and user communities to develop content; formatting, organizing, and designing information; and user analysis and testing. 3(3-0), S

**ENG 774 Professional Writing Internship**

Prerequisite: permission of instructor. Projects in technical and professional writing, combining academic training and supervised work experience in business and industry. Students are required to work a minimum of 150 hours. 3(3-0), F,S

**ENG 775 Designing Technical Documents**

Producing, analyzing, and adapting technical documents to meet the needs of diverse clients. 3(3-0), S

**ENG 777 Scientific and Technical Editing**

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. 3(3-0), S

**ENG 780 Seminar: Intellectual Backgrounds of Literature in English**

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 topic is different. 3(3-0), F,S

**ENG 781 Rhetorical Criticism**

Study of rhetorical and metalinguistic approaches to analyzing literature, with applications of theory to particular works. 3(3-0), S

**ENG 785 Seminar: Critical Theories**

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. 3(3-0), S

**ENG 786 Seminar: Form and Theory of Poetry and Prose**

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. 3(3-0), F

**ENG 792 Linguistics in Rhetoric and Composition**

Applications of linguistic models to rhetorical theory and/or the teaching of composition. 3(3-0), S

**ENG 793 Seminar: Linguistics**

Topics in historical, theoretical, or applied linguistics. May be repeated to a total of 9 hours if topic is different. 3(3-0), F,S



**ENG 799 Thesis**

Prerequisite: permission of the Director of Graduate Studies in English. Independent research and study connected with preparation of thesis. 1-6, F,S

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Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
published July 2011

Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Linguistics Program

## Linguistics Program

Siceluff Hall, Room 207, Phone: (417) 836-5867, Fax: (417) 836-4226  
Email: [cmbiava@missouristate.edu](mailto:cmbiava@missouristate.edu)  
Website: <http://linguistics.missouristate.edu/>  
Administrator: Professor Christina Biava, Ph.D., Department of English

### General Information

**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 Provost. The chair of the committee, elected by committee members, signs applications to degree program and, after consultation with committee members, approves course substitutions.

### 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)\*. 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.
- C. No more than 3 hours may also count for a major or General Education Requirements.

#### 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)\*. 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.
- D. No more than 3 hours may also count for a major or General Education requirements.

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Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Department of Media, Journalism & Film

## Department of Media, Journalism & Film

Craig Hall, Room 376, Phone: (417) 836-5218, Fax: (417) 836-4637  
Email: [MJF@missouristate.edu](mailto:MJF@missouristate.edu)  
Website: <http://mjf.missouristate.edu>  
Department Head: Associate Professor Mark M. Biggs, M.A.

### Faculty (as of July 15, 2011)

**Professors:** James W. Bihlmeyer, M.F.A.; Karen Buzzard, Ph.D.; Thomas V. Dickson, Ed.D.; Mark Paxton, Ph.D.

**Associate Professors:** Mark M. Biggs, M.A.; Andrew Cline, Ph.D.; Mary Jane Pardue, D.A.; Weiyan Wang, M.F.A.; Timothy White, Ph.D.

**Assistant Professors:** Diana Botsford, M.A.; Deborah Larson, Ph.D.; Kevin P. Swift, M.A.

**Instructors:** Charles D. Cline, M.F.A.; Jack E. Dimond, M.A.; Adam Joyce, M.F.A.

**Emeritus Professor:** Arlen E. Diamond, Ph.D.

### Program Requirements and Restrictions

#### Admission Requirements

All students majoring in the Department of Media, Journalism & Film (except for those seeking a major in Electronic Arts) must satisfy the following requirements before they can be admitted to the program. (In most cases, these requirements should be met by the time the student has completed 75 hours of coursework.)

- A. Complete a minimum of 30 credit hours.
- B. Have a combined grade point average (Missouri State and transfer) of 2.30 or higher.
- C. Complete COM 115 and ENG 110.
- D. Complete the following departmental preadmission core courses and the appropriate degree option course with at least a C- in each of these courses.

**Departmental Preadmission Core:** MED 120(3), 130(3), 220(3)

#### Required Degree Option Courses:

Journalism (Broadcast; Print and Internet) - JRN 270(3)  
Non-Comprehensive Mass Media (Film Studies, Media Studies) - MED 274(3)  
Comprehensive Mass Media (Digital Film Production, Media Production) - MED 365(3)

- E. Achieve a combined GPA of 2.70 or higher across any three of the four preadmission courses (MED 120, 130, 220, and the appropriate degree option course). To achieve the 2.70 GPA, a student may retake any of these courses only once and may retake no more than two of these courses.
- F. Submit application for admission and receive approval by faculty advisor and Head of the Department of Media, Journalism & Film.

#### Restriction

Departmental majors may not take a second major within the department.

### Graduate Programs

The following graduate programs are available:

Graduate Certificate.

Refer to the [Graduate Catalog](#) for more information.

#### University Certificate (graduate)

A graduate level certificate in Screenwriting for Television and Film is available. Refer to the Graduate Catalog for more information.

### General Information

#### Student 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 KOZK: Ozarks Public Television and 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 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 independent production facilities.

## Majors

### Electronic Arts (Non-Comprehensive)

Bachelor of Science

This program is offered in conjunction with the Department of Art and Design.

#### 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 100(3) or 110(3); MED 290(3), 365(3); MUS 216(3). Core courses in the student's chosen option must be completed before applying.

#### 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. Students seeking admission to the Electronic Arts program in the area of Computer Animation Studies must include at least one work from ART 230 or ART 330. Specific guidelines are required for portfolios. See advisor or the Electronic Arts Coordinator for details.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (37 hours)
  1. Core Courses: ART 100(3) or 110(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 361(3), 492(3), 595(1-3); MUS 103(3), 137(1), 327(2), 399(1-3), 512(3); THE 558(3)
    - b. **Computer Animation Studies:** (See "Department of Art and Design" section of catalog)
    - c. **Multimedia Studies:** MED 390(3), 490(3); ART 210(3); DES 202(3); select 6 hours with advisor approval: ART 230(3); MED 355(3), 465(3), 492(3), 595(1-3). *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), 462(3), 463(3), 492(3), 562(3), 565(3), 595(1-3)
  3. Public Affairs Intensive Experience. Choose one of the following options: MED 492, 498, 595, or Study Abroad.
- C. Minor Required. Note: No more than 6 hours may count for both the Electronic Arts major and the minor. Students should seek advisor approval for courses in the minor.
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Journalism (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirement: MED 120(3)
- B. Major Requirements (39 hours)
  1. Departmental Preadmission Core: MED 130(3), 220(3)
  2. Departmental Required Courses: MED 304(3), 581(3); JRN 407(3)
  3. Journalism Core: JRN 270(3), 595(3)
  4. Choose one of the following options (18 hours):
    - a. **Broadcast Journalism:** JRN 284(3), 381(3); JRN 388(3) or 481(3); MED 365(3); MED 382(3) or 383(3); select 3 hours of JRN or MED electives chosen with approval of advisor.
    - b. **Print and Internet Journalism:** JRN 370(3), 372(3), 476(3); select 9 hours from MED 390 and JRN courses other than JRN 595 chosen with approval of advisor but no more than 6 hours of JRN 300.
  5. Public Affairs Intensive Experience: MED 581

Note: A student must achieve a combined GPA of 2.70 or higher across any three of the four preadmission courses [MED 120(3), 130(3), 220(3) and JRN 270(3)] along with a combined GPA of 2.30 or higher to be admitted to this major.
- C. Minor required. Note: No course may count for both the Journalism major and the minor. A minor in Mass Media will not meet the minor requirement.
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Mass Media (Non-Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog.

Specific General Education Requirement: MED 120(3)

B. Major Requirements (39 hours)

1. Departmental Preadmission Core: MED 130(3), 220(3)
2. Departmental Required Courses: MED 304(3), 581(3); JRN 407(3)
3. Mass Media (Non-Comprehensive) Core: MED 274(3), 454(3)
4. Choose one of the following options (18 hours):
  - a. **Film Studies:** MED 374(3), 375(3), 470(3), 570(3); select 6 hours of elective courses chosen with approval of advisor
  - b. **Media Studies:** MED 290(3); MED 320(3) or 355(3) or 580(3); MED 325(3); 381(3); select 6 hours of MED or JRN electives chosen with approval of advisor
5. Public Affairs Intensive Experience: MED 581

Note: A student must achieve a combined GPA of 2.70 or higher across any three of the four preadmission courses [MED 120(3), 130(3), 220(3) and 274(3)] along with a combined GPA of 2.30 or higher 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 [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Mass Media (Non-Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog.  
Specific General Education Requirement: MED 120(3)

B. Major Requirements (39 hours)

1. Departmental Preadmission Core: MED 130(3), 220(3)
2. Departmental Required Courses: MED 304(3), 581(3); JRN 407(3)
3. Mass Media (Non-Comprehensive) Core: MED 274(3), 454(3)
4. Choose one of the following options (18 hours):
  - a. **Film Studies:** MED 374(3), 375(3), 470(3), 570(3); select 6 hours of elective courses chosen with approval of advisor
  - b. **Media Studies:** MED 290(3); MED 320(3) or 355(3) or 580(3); MED 325(3); 381(3); select 6 hours of MED or JRN electives chosen with approval of advisor
5. Public Affairs Intensive Experience: MED 581

Note: A student must achieve a combined GPA of 2.70 or higher across any three of the four preadmission courses [MED 120(3), 130(3), 220(3) and 274(3)] along with a combined GPA of 2.30 or higher 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 [General Baccalaureate Degree Requirements](#) section of catalog

### Mass Media (Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog.  
Specific General Education Requirement: MED 120(3)

B. Major Requirements (51 hours)

1. Departmental Preadmission Core: MED 130(3), 220(3)
2. Departmental Required Courses; MED 304(3), 581(3); JRN 407(3)
3. Mass Media (Comprehensive) Core: MED 274(3), 365(3), 454(3)
4. Choose one of the following options (27 hours):
  - a. **Digital Film Production:** MED 361(3) or 461(3); MED 374(3) or 375(3); MED 462(3); MED 464(3) or 565(3); MED 465(3) or 466(3); MED 561(3) or 562(2); select 9 hours of elective courses from MED 300(3), 361(3); MED 374(3) or 375(3); MED 461(3); 463(3); MED 464(3) or 565(3); MED 465(3); 466(3); MED 470(3); 492(1-3); MED 561(3); 562(3); MED 566(3); 567(3); 570(3); 595(3); 597(3)
  - b. **Media Production:** MED 290(3), 325(3); MED 361(3) or 382(3); MED 381(3) or 464(3); MED 383(3), 583(3); select 9 hours of elective courses from MED 320(3); 355(3); 390(3), MED 361(3); 382(3); MED 381; 464(3); MED 462(3); 463(3); 466(3); 490(3); 492(1-3); 566(3); 595(1-6); 597(3)
5. Public Affairs Intensive Experience: MED 581

Note: A student must achieve a combined GPA of 2.70 or higher across any three of the four preadmission courses [MED 120(3), 130(3), 220(3) and 365(3)] along with a combined GPA of 2.30 or higher to be admitted to this major.

C. Note: No course may count for both the Mass Media major and a minor.

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Film Studies

Bachelor of Arts  
Bachelor of Science

- A. MED 274(3), 570(3)
- B. 9 hours of electives from MED 300(1-3) with advisor approval, 374(3), 375(3), 470(3) to bring the total hours in minor 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.

### 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.

### Screenwriting

Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Science

- A. MED 565(3), 566(3), 567(3)
- B. 9 hours of electives from MED 463(3); MED 464(3); ENG 225(3); ENG 325(3); LLT 121(3) or 180(3) or 321(3) to bring the total hours in minor to at least 18 hours.

## University Certificate (undergraduate)

### Writing for Television and Film

The undergraduate certificate in Writing for Television and Film is designed to teach students the screenwriting craft; to develop each student's potential and to help all students find their unique style; to expose students to the concept of "workshopping pages" and giving and receiving critical input on style, writing technique and structure; and to provide insight into today's film and television market.

#### Admission Requirements

Minimum of 30 credit hours and a combined GPA (Missouri State and transfer) of 2.50 or better

- A. MED 565(3), 566(3), 567(3)
- B. 3 additional hours from MED 462(3), 463(3), or 464(3) for a total of at least 12 hours
- C. Attain a GPA of 2.00 or better on all certificate coursework

## Journalism Courses

### JRN 270 Introduction to Journalism

Prerequisite: ENG 110. Study of the purposes and forms of journalism. Includes writing the basic types of stories. Typing skills required. 3(3-0) F,S

### JRN 284 Broadcast Performance

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. 3(3-1) F,S

### JRN 300 Special Topics in Journalism

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. 1-3 D

### JRN 305 Service Learning in Journalism

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. 1 F,S

### JRN 370 News Reporting and Writing

Prerequisite: JRN 270. Instruction and practice in gathering news material, writing news reports, and editing copy. Includes introduction to news beats and specialized reporting techniques. 3(3-0) F,S

**JRN 372 Public Affairs Reporting**

Prerequisite: JRN 370. Instruction and practice in gathering material and writing stories on public affairs, with emphasis on state and local government. 3(3-0) S

**JRN 374 Opinion Writing**

Prerequisite: JRN 270. Instruction and practice in writing editorials, opinion columns, news analyses and critical reviews. 3(3-0) F

**JRN 375 Feature Writing**

Prerequisite: JRN 270. Practice in writing feature articles for print and online publications, including human interest stories, news features, personality profiles, how-to articles and historical pieces. 3(3-0) S

**JRN 376 Business Reporting**

Prerequisite: JRN 270. Instruction and practice in gathering information and writing business-related articles. The course covers interviewing and reporting techniques used to write business stories, including enterprise and trend stories as well as company profiles. The student also will gain an understanding of the importance of business news to public affairs. 3(3-0) F

**JRN 378 Multimedia Journalism**

Prerequisite: JRN 270. Instruction and practice in multimedia reporting and publishing for print media and the Internet, including digital still photography, video, audio, social media, and text. The course will also address content management systems for the web, ethics, and legal concerns. Note: Students must have a digital camera (3.1 megapixels or greater) with still and video modes. (All-in-one devices such as the iPhone fulfill this requirement.) 3(3-1) S

**JRN 381 Broadcast News Writing**

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. 3(3-0) F,S

**JRN 388 Electronic News Gathering**

Prerequisite: JRN 284 and JRN 381. Instruction and practice in news gathering techniques for television. Students will learn the basics of video production (shooting, editing, lighting, etc.) and reporting as well as advanced storytelling techniques, including solo reporting, recording natural sound packages, and live shot production and reporting. Emphasis is placed on gaining expertise in shooting and editing techniques as they apply to news. 3(2-2) F

**JRN 407 Media Law**

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. 3(3-0) F,S

**JRN 476 Newspaper Editing**

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. 3(3-0) F,S

**JRN 477 Publications**

Prerequisite: JRN 270. 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. 3(3-0) F,S

**JRN 481 Broadcast News Reporting and Producing**

Prerequisite: JRN 284 and JRN 381. Instruction and practice in video news production and line producing for television news. The course covers both video production techniques (shooting, editing, lighting, etc.) and techniques for producing a newscast. Students will shoot, edit and report news packages as well as develop skills as a line producer. Students will learn how to create a rundown, time a show, create proper flow and make critical show decisions that are essential to producing. 3(2-2) S

**JRN 492 Independent Study in Journalism**

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. 1-3 D

**JRN 590 Issues in Journalism**

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. May be taught concurrently with JRN 690. Cannot receive credit for both JRN 690 and JRN 590. 3(3-0) D

**JRN 592 Newscast Practicum**

Prerequisite: JRN 284 and JRN 388 and MED 383 and permission of instructor. Practical on-air experience with a student-run news program. Students will produce, report, anchor and work as studio crew for a weekly show. May be repeated to a total of 6 hours. 3(0-6) F,S

**JRN 595 Journalism Internship**

Prerequisite: 60 hours and permission of instructor. Work experience with a professional news organization. The student will be provided an educational opportunity not available through classroom experience. The instructor must approve all necessary paperwork before the student may begin the internship. May be repeated to a total of 6 hours. 1-6 F,S

**JRN 690 Issues in Journalism**

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. May be taught concurrently with JRN 590. Cannot receive credit for both JRN 590 and JRN 690. 3(3-0) D

### **JRN 695 Journalism Internship**

Prerequisite: permission of instructor. Work experience with news organizations. The student will be provided an educational opportunity not available through classroom experience. The instructor must approve all necessary paperwork before the student may begin the internship. May be repeated for a total of 6 hours. May be taught concurrently with JRN 595. Cannot receive credit for both JRN 595 and JRN 695. 1-6 F,S

## **Mass Media Courses**

### **MED 120 Mass Media and Society**

General Education Course (Culture and Society/Social Sciences Perspective). 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. 3(3-0) F,S

### **MED 130 Fundamentals of Media Convergence**

An exploration of the role and impact of convergence across all areas of journalism and media. Emphasis will be placed on the teaching of audio, video, web and social media skills. 3(3-0) F,S

### **MED 220 Case Studies in Mass Media**

Prerequisite: MED 130. A case study approach investigating how the mass media cover a single significant public affairs issue such as Hurricane Katrina or health care reform. Emphasis will be placed on media literacy and critical thinking as students consider the role that the mass media play in public discourse and social reality. 3(3-0) S

### **MED 274 Introduction to Film**

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. 3(3-1) F,S

### **MED 290 Fundamentals of Multimedia Design**

A broad exploration of multimedia design via readings and creative experiences. The following areas are considered: fundamental design principles, effective multimedia design, implementation and implications of multimedia, evaluation of existing multimedia examples, and collaboration in a group multimedia project. 3(3-1) F, S

### **MED 300 Special Topics in Media**

A course upon a single topic of current interest. May be repeated to a total of 6 hours if topics are different. 1-3 D. Approved Recurring Course Topic: Anime. An in-depth exploration of anime, or Japanese animation. The course includes an examination of the various figures involved (artists, writers, directors, etc.), genres (action, martial arts, mythological, etc.), and the relationship between anime and animation in the West. 1(1-0) D. Approved Recurring Course Topic: Asian Horror Cinema. An in-depth exploration of Asian Horror cinema. It includes an examination of the various figures involved (artists, writers, directors, etc.), the cultures of these Asian nations, and the relationship between Asian horror films and Hollywood. 1(1-0), D. Approved Recurring Course Topic: Documentary Film History and Theory. Students will screen a series of classic documentary films as they study the history, theory, and the social role played by documentaries in the 20th 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. 2(2-0) D. Approved Recurring Course Topic: Great Directors. A survey of important national and international directors. Students will learn to analyze influential directors' work from both a historical and theoretical approach. The course is Internet-based and will require membership to a movie rental outlet. 3(3-0) F. Approved Recurring Course Topic: Hong Kong Cinema. An in-depth exploration of Hong Kong cinema. It includes an examination of the various figures involved (actors, directors, etc.), genres (action, martial arts, art film, etc.), and the relationship between Hong Kong cinema and Hollywood. 1(1-0) D. Approved Recurring Course Topic: James Bond and the Movies. 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. 1(1-0) D. Approved Recurring Course Topic: Sci-Fi Noir. An exploration into the cinematic style of Film Noir in its latest version, the science fiction film. The course will investigate the influences and impact that the 1940s Film Noir style has had on specific films that can be categorized of Future Noir or relating to the development of Future Noir. 1(1-0) D. Approved Recurring Course Topic: The Cinema of Iran. An introduction to the cinema of Iran and to the cinema of Islamic cultures in general. The course will cover such topics as the history of Iranian cinema, the place of women in the Iranian film industry, and film in the context of Islamic art. 1(1-0) D. Approved Recurring Course Topic: The Films of the Coen Brothers. An exploration into the cinematic style of the Coen Brothers. The course will investigate how Noir writers of the 1940s, Hitchcock, the Horror genre and the struggle to remain independent have influenced the Coens. Students will learn the stylistic choices that reoccur in the Coen Brothers films and be able to discuss them in relation to their films and the film industry at large. 1(1-0) D. Approved Recurring Course Topic: The Portrayal of Women in Television Situation Comedies. 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? 2(2-0) D.

### **MED 304 Mass Media Theory**

Prerequisite: MED 120. An examination 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. 3(3-0) F,S

### **MED 305 Service Learning in Media**

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. 1 F,S



**MED 320 Understanding the Broadcast Industry**

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. 3(3-0) D

**MED 325 Media History**

The development and growth of U.S. mass media from their origins through the development of the Internet. Emphasis will be placed on changing technologies, changing socio-political roles and changing structure of the mass media industry. 3(3-0) F,S

**MED 355 Social Media**

Prerequisite: MED 120. An overview of how social media are changing the ways we communicate, collaborate and create through digital media. Students will examine the historical, theoretical and practical implications of social media on human communication through a series of critical readings, media presentations and practical encounters with social networking. 3(3-0) D

**MED 361 Introduction to Sound Recording for Digital Film and TV**

Prerequisite: MED 365. A foundational-level production course introducing recording/mixing techniques and technologies of production sound in digital film and television. Lectures will focus on basic acoustics and audio electronics, the aesthetics of the sound medium and sound as art in digital film and television. Students will learn critical-listening skills and gain recording/mixing experience in all aspects of field sound production including field sound recording equipment and setup, microphone placement and boom operation, and mixing with single and multiple microphones on the set. Students will also learn how to solve production problems and prepare production sounds for post-production. 3(3-1) F

**MED 365 Digital Film and Media Production**

Prerequisite: MED 120 required for MJF majors only. 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. 3(2-2) F,S

**MED 374 History of Film I**

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. 3(3-1) F

**MED 375 History of Film II**

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. 3(3-1) S

**MED 381 Broadcast Writing**

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. 3(3-0) F,S

**MED 382 Radio Production**

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. 3(3-1) F,S

**MED 383 Television Production**

Prerequisite: MED 365. Orientation to and practical experience in creating TV production in the professional studio setting. 3(2-2) F,S

**MED 384 Internet Radio Practicum**

Practice in the Internet environment creating actual radio programming in such areas as Music, Talk, News, Sports, and Live Events. Students will learn the skills and technology used in the equipment and software while performing the real-time duties of host. Emphasis will be on efficiency and professionalism. May be repeated to a total of 6 hours. 3(3-1) D

**MED 390 Website Design and Construction**

Prerequisite: MED 290. An overview of multimedia design and multimedia-specific concepts. The course will look at multimedia design standards on multiple levels; content design and creation, user experience, navigation, interface, functionality, interactivity, multimedia integration, etc. Students will create and publish a website. 3(3-1) F,S

**MED 454 Media Analysis and Criticism**

Prerequisite: MED 120; and COM 209 or MED 304. The political, cultural, economic and social impact of the American media and their content as they affect and influence the individual and the culture. 3(3-0) F,S

**MED 461 Sound Editing**

Prerequisite: MED 365. An introduction to the theoretical and practical principles of sound editing for digital film and TV post-production. Students will be exposed to sound-design ideas and learn sound-editing skills and techniques using a professional sound-editing program. Students will design and build soundtracks for digital film and TV with both aesthetic and technical considerations. 3(3-1) F,S

**MED 462 TV/Film Producing**

An in-depth examination of the producer's various roles in television and film production. Practical experience with script breakdowns, scheduling and budgets will provide the student with an understanding of the various aspects of production and how the development and structure of the script can affect the production's outcome. May be taught concurrently with MED 682. Cannot receive credit for both MED 462 and MED 682. 3(3-0) F

**MED 463 Writing Adaptations for Television and Film**

Study and practice in adapting material for television or film. Plot decisions, character redefinition and story structure will be examined through analysis and application. Students will select a source to adapt and will create a polished outline and selected scenes from original materials during the course. This course will also review the legalities and business issues of public domain rights versus options and licensing. May be taught concurrently with MED 663. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) S

#### **MED 464 Genre Writing for Television and Film**

An overview of the expectations and requirements of the various genres, including comedy, mystery, romance, horror, science fiction and fantasy. Students will study the past, present and possible future trends of each genre in the television and film markets. The course will focus on what defines audience expectations. Students will craft characters, plot, dialogue, settings and themes that are genre specific. May be taught concurrently with MED 664. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) F

#### **MED 465 Principles of Cinematography and Editing**

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 nonlinear 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. 3(2-2) F

#### **MED 466 Advanced Editing**

Prerequisite: MED 365. An examination of the theoretical, historical, and practical principles involved in editing narrative film and video. Students will learn intermediate and advanced nonlinear editing techniques using AVID editors. Editing theory and aesthetics will be addressed through a series of editing exercises pulled from feature films and television series. Issues of narrative clarity, dramatic focus, pacing, and effective storytelling will be emphasized. 3(2-2) F

#### **MED 470 Special Topics in Film**

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. 3(3-1), D. Approved recurring course topic: Animation. 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. 3(3-1), D. Approved recurring course topic: Asian Cinema. 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. 3(3-1), D

#### **MED 490 Advanced Interactivity Multimedia Design**

Prerequisite: MED 290. An advanced study of interactive multimedia design based on human-computer interaction principles. Course will include the creation of a project incorporating interactivity as a core element. Topics may include mobile applications, site-specific multimedia design, trans-media, advanced physical interactivity, or advanced Flash design. May be repeated to a total of 6 hours if topics are different. Variable content course. 3(2-2), SE

#### **MED 492 Independent Study in Electronic Media**

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. 1-3 D

#### **MED 498 Senior Project in Electronic Arts**

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. 2(2-0) F,S

#### **MED 561 Sound Mixing**

Prerequisite: MED 461. An in-depth exploration of the art of sound design for digital film and TV. Students will learn how to carry out the aesthetic considerations of sound through the mixing process. Emphasis will be placed on advanced sound editing for sub and final mixing, mix engineering, sound-effect processing and surround-sound practice. Students will learn how to mix a movie's dialogue, sound effects, ambience and music into stereo and surround tracks. May be taught concurrently with MED 661. Cannot receive credit for both MED 561 and MED 661. 3(3-1) F

#### **MED 562 Digital Filmmaking**

Prerequisite: MED 461 or MED 462 or MED 465. A film-style production class in high-definition digital filmmaking. Students will form small production teams to plan, design, and produce short narrative films. May be taught concurrently with MED 662. Cannot receive credit for both MED 662 and MED 562. 3(2-2) S

#### **MED 565 Screenwriting**

Writing the feature film screenplay. Students will study characterization, structure, plot, description, dialogue and format. The course will include screenings and discussion of feature films and their screenplays, and the business of professional screenwriting. Student will create a premise, character biographies, story structure and scene outline as well as generate their first draft of a short film screenplay or the first act of a full-length film for student and instructor critique and feedback. May be taught

concurrently with MED 667. Cannot receive credit for both MED 667 and MED 565. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) F,S

**MED 566 Writing the One-Hour Drama Teleplay**

An in-depth look at the elements of writing for the one-hour television market. The course will include the foundations of study structure and play, character and conflict, dialogue and setting, and how to apply these elements to storytelling on the small screen. Writing will include development of a story through outline and beat sheets as well as a first and polished draft of an episode of a currently running television series. Students will learn to pitch their ideas effectively to writer-producers. May be taught concurrently with MED 668. Cannot receive credit for both MED 668 and MED 566. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) F,S

**MED 567 Script Rewriting and Marketing**

Prerequisite: MED 565 or MED 566. An examination of the many phases of rewriting television or feature length screenplays for professional submission. Students will analyze and critique screenplays and teleplays, apply rewriting methods to their scripts for workshopping, create a marketing business plan for submission, and receive feedback. May be taught concurrently with MED 669. Cannot receive credit for both MED 669 and MED 567. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) S

**MED 570 Film Theory**

An analysis of the art of film by using classical and 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 contemporary films. May be taught concurrently with MED 670. Cannot receive credit for both MED 670 and MED 570. 3(3-1) S

**MED 580 Media in Politics**

Prerequisite: MED 120; and COM 209 or MED 304. 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. May be taught concurrently with MED 680. Cannot receive credit for both MED 680 and MED 580. 3(3-0) D

**MED 581 Issues in Media Ethics**

Prerequisite: MED 120 and MED 304. 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. May be taught concurrently with MED 681. Cannot receive credit for both MED 681 and MED 581. 3(3-0) F,S

**MED 583 Advanced Television Production**

Prerequisite: MED 383. Principles, skills, and techniques involved in advanced television production. Practical experience in writing, producing, directing and editing non-fiction television content for a video-magazine, news show, and/or promotions. May be taught concurrently with MED 683. Cannot receive credit for both MED 583 and MED 683. 3(2-2) D

**MED 595 Media Internship**

Prerequisite: 60 hours and permission of instructor. Work experience with a professional media organization. The student will be provided an educational opportunity not available through classroom experience. The instructor must approve all necessary paperwork before the student may begin the internship. May be repeated to a total of 6 hours. 1-6 F,S

**MED 597 Advanced Studies in Media**

Prerequisite: permission of instructor. In-depth examination of a special topic in media. Variable content course. May be repeated to a total of 6 hours. May be taught concurrently with MED 697. Cannot receive credit for both MED 697 and MED 597. 3(3-0) D

**MED 661 Sound Mixing**

An in-depth exploration of the art of sound design for digital film and TV. Students will learn how to carry out the aesthetic considerations of sound through the mixing process. Emphasis will be placed on advanced sound editing for sub- and final mixing, mix engineering, sound-effect processing and surround-sound practice. Students will learn how to mix a movie's dialogue, sound effects, ambience and music into stereo and surround tracks. May be taught concurrently with MED 561. Cannot receive credit for both MED 661 and MED 561. 3(3-1) F

**MED 662 Digital Filmmaking**

Prerequisite: MED 461 or MED 462 or MED 465. A film-style production class in high-definition digital filmmaking. Students will form small production teams to plan, design, and produce short narrative films. May be taught concurrently with MED 562. Cannot receive credit for both MED 662 and MED 562. 3(2-2) S

**MED 663 Writing Adaptations for Television and Film**

Study and practice in adapting material for television or film. Plot decisions, character redefinition and story structure will be examined through analysis and application. Students will select a source to adapt and will create a polished outline and selected scenes from original materials during the course. This course will also review the legalities and business issues of public domain rights versus options and licensing. May be taught concurrently with MED 463. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) S

**MED 664 Genre Writing for Television and Film**

An overview of the expectations and requirements of the various genres, including comedy, mystery, romance, horror, science fiction and fantasy. Students will study the past, present and possible future trends of each genre in the television and film markets. The course will focus on what defines audience expectations. Students will craft characters, plot, dialogue, settings, and themes that are genre specific. May be taught concurrently with MED 464. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) F

**MED 667 Screenwriting**

Writing the feature film screenplay. Students will study characterization, structure, plot, description, dialogue and format. The course will include screenings and discussions of feature films and their screenplays, and the business of professional screenwriting. Students will create a premise, character biographies, story structure and scene outline as well as generate their first draft of a short film screenplay or the first act of a full-length film for student and instructor critique and feedback. May be taught concurrently with MED 565. Cannot receive credit for both MED 565 and MED 667. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) F, S

**MED 668 Writing the One-Hour Drama Teleplay**

An in-depth look of the elements of writing for the one-hour television market. The course will include the foundations of story structure and plot, character and conflict, dialogue and setting, and how to apply these elements to storytelling on the small screen. Writing will include development of a story through outline and beat sheets as well as a first and polished draft of an episode of a currently running television series. Students will learn to pitch their ideas effectively to writer-producers. May be taught concurrently with MED 566. Cannot receive credit for both MED 566 and MED 668. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) F, S

**MED 669 Script Rewriting and Marketing**

Prerequisite: permission of instructor. An examination of the many phases of rewriting television or feature length screenplays for professional submission. Students will analyze and critique screenplays and teleplays, apply rewriting methods to their scripts for workshopping, create a marketing business plan for submission, and receive feedback. May be taught concurrently with MED 567. Cannot receive credit for both MED 567 and MED 669. May be repeated to a total of 6 hours with permission of the instructor. 3(3-0) D

**MED 670 Film Theory**

An analysis of the art of film by using classical and 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 film excerpts, complete classics and contemporary films. May be taught concurrently with MED 570. Cannot receive credit for both MED 570 and MED 670. 3(3-1) S

**MED 680 Media in Politics**

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. May be taught concurrently with MED 580. Cannot receive credit for both MED 580 and MED 680. 3(3-0) D

**MED 681 Issues in Media Ethics**

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. May be taught concurrently with MED 581. Cannot receive credit for both MED 581 and MED 681. 3(3-0) F, S

**MED 682 TV/Film Producing**

An in-depth examination of the producer's various roles in television and film production. Practical experience with script breakdowns, scheduling and budgets will provide the student with an understanding of the various aspects of production and how the development and structure of the script can affect the production's outcome. May be taught concurrently with MED 462. Cannot receive credit for both MED 682 and MED 462. 3(3-0) F

**MED 683 Advanced Television Production**

Prerequisite: MED 383. Principles, skills, and techniques involved in advanced television production. Practical experience in writing, producing, directing and editing non-fiction television content for a video-magazine, news show, and/or promotions. May be taught concurrently with MED 583. Cannot receive credit for both MED 683 and MED 583. 3(2-2) D

**MED 695 Media Internship**

Prerequisite: permission of instructor. Work experience with a professional media organization. The student will be provided an educational opportunity not available through classroom experience. The instructor must approve all necessary paperwork before the student may begin the internship. May be repeated to a total of 6 hours. May be taught concurrently with MED 595. Cannot receive credit for both MED 595 and MED 695. 1-6 F,S

**MED 697 Advanced Studies in Media**

Prerequisite: permission of instructor. In-depth examination of a special topic in media. Variable content course. May be repeated to a total of 6 hours. May be taught concurrently with MED 597. Cannot receive credit for both MED 597 and MED 697. 3(3-0) D

**MED 704 Theory and Research in Mass Communication**

Survey of theories, models and research in mass communication. Topics include propaganda, attitude change, agenda setting and media effects research. 3(3-0) S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Department of Modern and Classical Languages

## Department of Modern and Classical Languages

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Email: [MCL@missouristate.edu](mailto:MCL@missouristate.edu)  
Website: <http://www.missouristate.edu/mcl>  
Acting Department Head: Associate Professor Jason R. Jolley, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Edwin Carawan, Ph.D.; Roger Dowdy, Ph.D.; Mary Harges, Ph.D.; Joseph J. Hughes, Ph.D.; Robert L. Norton, Ph.D.; Pauline Nugent, Ph.D.

**Associate Professors:** Madeleine Hooper, Ph.D.; Julie A. Johnson, Ph.D.; Jason R. Jolley, Ph.D.; Pedro Koo, Ph.D.; Judith Martin, Ph.D.; Alessandra Pires, Ph.D.

**Assistant Professor:** Eduardo Acuna-Zumbado, Ph.D.

**Senior Instructor:** Tonia E. Tinsley, Ph.D.

**Instructors:** Anne Colombo, M.A.; Luis Lombilla, M.A.; Corinne Shirley, Ph.D.; Weirong Yan-Schaefer, Ph.D.

**Emeritus Professors:** Robert J. Berndt, Ph.D.; Larry L. George, Ph.D.; William Holman, Ph.D.; Curtis P. Lawrence, Ph.D.; David Lee, Ph.D.; James R. Woodward, M.A.

### Accreditation

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.

### Fine Arts Courses

Fine Arts courses are available. Refer to the Bachelor of Arts degree requirements in the specific [Degrees, Programs and Requirements](#) section of the catalog for a listing of the courses.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

**Placement and Credit by Placement:** Students with foreign language experience (typically one or more years of high school language study, or equivalent) in French, German, or Spanish are required to take the Computerized Adaptive Placement Exam (WebCAPE) prior to enrolling in language courses. Students will receive placement information immediately upon completion of the exam. Placement scores remain valid for the duration of enrollment as undergraduate student. During the first week of classes, instructors will ensure that students were placed in the appropriate class for their level of competency.

Students with more advanced experience in French, German, or Spanish and students with experience in languages other than French, German, or Spanish must contact the Department of Modern and Classical Languages for an individualized assessment and placement. The assessment will cover reading, writing, listening, comprehension, and culture.

Native speakers of non-English languages should consult with the department head prior to enrolling in courses.

All language students that have been assessed and placed can obtain retroactive credit (up to 18 credit hours) provided they complete the class they placed into with a grade of B or higher and apply to the department to receive the retroactive credit. Credit will not be automatically granted. Consult with the Modern and Classical Languages department head regarding any exceptions.

**Bachelor of Arts Language Requirement:** All students pursuing a Bachelor of Arts degree must complete a language requirement of 12 hours. There are two options in the Department of Modern and Classical Languages.

1. Complete 12 hours in one language
2. Complete two 6 hour segments in two different languages

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.

**Bachelor of Arts Fine Arts Restriction:** Literature courses in this department will count toward the Fine Arts requirement provided those courses have not also been used to meet the foreign language requirement.

### General Information

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 a Hispanic country and intensive French programs are offered during the summer. Laboratory practice is required of all students in modern language courses 101, 102, 201 and 202.

#### Student Activities

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 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.

## Majors

### Classics-Latin Concentration

Bachelor of Arts

- A. General Education Requirements - see [General Education Program 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 (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Classics-Latin Concentration

Bachelor of Science in Education  
(Certifiable grades K-12)

- A. General Education Requirements - see [General Education Program 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 the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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.

### French

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (33 hours)
  - 1. FRN 201(3), 202(3), 311(3), 312(3), 326(3), 335(3), 410(3) and 415(3)
  - 2. FRN 313(3) or 314(3)
  - 3. Six hours of additional French electives beyond 102 to bring total to at least 33 hours. Study abroad and service learning are highly recommended. Students typically receive credit for such experiences.
  - 4. MCL 499(0)
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### French

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (33 hours)
  - 1. FRN 201(3), 202(3), 311(3), 312(3), 326(3), 335(3), 410(3) and 415(3)
  - 2. FRN 313(3) or 314(3)

3. Six hours of additional French electives beyond 102 to bring total to at least 33 hours. Study abroad and service learning are highly recommended. Students typically receive credit for such experiences.

4. MCL 499(0)

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### French

Bachelor of Science in Education

(Certifiable grades K-12)

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (33 hours)

1. FRN 201(3), 202(3), 311(3), 312(3), 326(3), 335(3), 410(3) and 415(3)

2. FRN 313(3) or 314(3)

3. Six hours of additional French electives beyond 102 to bring total to at least 33 hours. Study abroad and service learning are highly recommended. Students typically receive credit for such experiences.

4. MCL 499(0)

5. Have an official ACTFL OPI (Oral Proficiency Interview) and receive a rating of at least "Advanced-Low."

C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6); and the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (33 hours)

1. Complete 33 hours beyond GRM 102. Of that total, at least 12 hours must come from upper-division courses, including at least six hours at the 400 or 500 levels. With advisor approval, a maximum of six hours from LLT 225 and LLT 271 may count toward the degree.

2. MCL 499(0)

C. Minor Required (or second major)

D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### German

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (33 hours)

1. Complete 33 hours beyond GRM 102. Of that total, at least 12 hours must come from upper-division courses, including at least six hours at the 400 or 500 levels. With advisor approval, a maximum of six hours from LLT 225 and LLT 271 may count toward the degree.

2. MCL 499(0)

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### German

Bachelor of Science in Education

(Certifiable grades K-12)

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (33 hours)

1. Complete 33 hours beyond GRM 102. Of that total, at least 12 hours must come from upper-division courses, including at least six hours at the 400 or 500 levels. With advisor approval, a maximum of six hours from LLT 225 and LLT 271 may count toward the degree.

2. MCL 499(0)



3. Have an official ACTFL OPI (Oral Proficiency Interview) and receive a rating of at least "Advanced-Low."
- C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6); and the Professional Education Required Core and Competencies - see [Teacher Certification](#), [Teacher Education Program](#) and [Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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

### Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (33 hours)
  1. SPN 201(3), 202(3), 205(3), 312(3), 324(3), 410(3), and SPN 415(3)
  2. SPN 325(3) or SPN 326(3)
  3. SPN 450(3) or SPN 460(3)
  4. Six hours of additional Spanish electives beyond 102 to bring total to at least 33 hours. Study abroad and service learning are highly recommended. Students typically receive credit for such experiences.
  5. MCL 499(0)
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Spanish

### Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (33 hours)
  1. SPN 201(3), 202(3), 205(3), 312(3), 324(3), 410(3), and SPN 415(3)
  2. SPN 325(3) or SPN 326(3)
  3. SPN 450(3) or SPN 460(3)
  4. Six hours of additional Spanish electives beyond 102 to bring total to at least 33 hours. Study abroad and service learning are highly recommended. Students typically receive credit for such experiences.
- C. MCL 499(0)
- D. Minor Required (or second major)
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Spanish

### Bachelor of Science in Education (Certifiable grades K-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (33 hours)
  1. SPN 201(3), 202(3), 205(3), 312(3), 324(3), 410(3), and SPN 415(3)
  2. SPN 325(3) or SPN 326(3)
  3. SPN 450(3) or SPN 460(3)
  4. Six hours of additional Spanish electives beyond 102 to bring total to at least 33 hours. Study abroad and service learning are highly recommended. Students typically receive credit for such experiences.
  5. MCL 499(0)
  6. Have an official ACTFL OPI (Oral Proficiency Interview) and receive a rating of at least "Advanced-Low."
- C. Professional Education courses: MCL 413(3), 493(5-6), 496(5-6); and the Professional Education Required Core and Competencies - see [Teacher Certification](#), [Teacher Education Program](#) and [Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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

### 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.

### Chinese

Bachelor of Arts

- A. CHI 201(3), 202(3)
- B. 12 hours from CHI 297(1-6), 311(3), 315(3); ART 274(3); LLT 215(3-6); PLS 545(3)

### Chinese

Bachelor of Science

- A. CHI 201(3), 202(3)
- B. 12 hours from CHI 297(1-6), 311(3), 315(3); ART 274(3); LLT 215(3-6); PLS 545(3)

### Classics-Concentration in Ancient Greek, Classics-Latin Concentration, French, 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 Classics-Concentration in Ancient Greek minor.

### Classics-Latin Concentration, French, German, Spanish

Bachelor of Science

In consultation with advisor, complete 18 hours in one language beyond courses 101 and 102.

### Classics-Latin Concentration, French, Spanish

Bachelor of Science in Education  
(Non-Certifiable)

In consultation with advisor, complete 18 hours in one language beyond 102 with 6 of those hours being 300-level or above.

### German

Bachelor of Arts

In consultation with advisor, complete 18 hours in German beyond 101 and 102. Three hours of either LLT 225 or LLT 271 may be counted on this minor.

### German

Bachelor of Science in Education  
(Non-Certifiable)

In consultation with advisor, complete 18 hours in German beyond 102 with 6 of those hours being 300-level or above. Three hours of either LLT 225 or LLT 271 may be counted on this minor.

## Arabic Courses

### ARB 101 Elementary Arabic I

Develop proficiency in the four communication skills: listening, reading, speaking, and writing. These skills are essential for effective communication in the target language. Credit by examination is available. 3(3-0) D

### ARB 102 Elementary Arabic II

Prerequisite: C or better in ARB 101. Develop additional proficiency in the four communication skills: listening, reading, speaking,

and writing. These skills are essential for effective communication in the target language. Credit by examination is available. 3(3-0) D

**ARB 201 Intermediate Arabic I**

Prerequisite: C or better in ARB 102. Systematic review, expansion, and synthesis of the four skill areas. This course will enhance communication skills by providing a thorough review of fundamentals of grammar through real-life language use, reading, and composition. Credit by examination is available. 3(3-0) D

**ARB 202 Intermediate Arabic II**

Prerequisite: C or better in ARB 201. Continued development of the four skill areas through conversation, composition, and reading as a means to access culture. Credit by examination is available. 3(3-0) D

**ARB 297 Special Topics in Arabic**

Prerequisite: permission of instructor and department head. Topics of selected interest in Arabic studies, including travel courses to Arabic-speaking countries. The specific subject matter and/or international component may vary according to resources and demand. May be repeated, as topics change, to a maximum of 6 credit hours. Variable content course. 1-6 D

**ARB 305 Advanced Arabic Proficiency Skills**

Prerequisite: C or better in ARB 202. Readings and discussions in modern standard Arabic, continuing the method used in teaching ARB 201 and 202. Enhances communicative skills by providing intensive practice in reading, writing, listening, speaking and active control of grammar and vocabulary. 3(3-0), D

## Chinese Courses

**CHI 101 Elementary Chinese I**

Essentials of grammar through aural-oral practice, dictation, reading and writing. Course conducted in Mandarin Chinese as far as practicable. 3(3-0) D

**CHI 102 Elementary Chinese II**

Prerequisite: C or better in CHI 101. Continuation of CHI 101. 3(3-0) D

**CHI 201 Intermediate Chinese III**

Prerequisite: C or better in CHI 102. Continuation of CHI 102 with emphasis on reading, conversation, and an introduction to Chinese history and culture. 3(3-0) D

**CHI 202 Intermediate Chinese IV**

Prerequisite: C or better in CHI 201. Continuation of CHI 201 with emphasis on reading, conversation, history, and culture. 3(3-0) D

**CHI 297 Special Topics in Chinese**

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. 1-6 D

**CHI 311 Chinese Reading and Conversation**

Prerequisite: CHI 202. A course designed to develop and refine students' conversational and reading skills through short speeches, group discussion, free conversation and reading. May be repeated, as content changes, to a maximum of 6 hours. Variable content course. 3(3-0) D

**CHI 315 Business and Professional Chinese**

Prerequisite: CHI 202 or above. Introduction to Chinese language and culture as used in business and selected professions. May be repeated once with different content. Variable content course. 3(3-0) D

**CHI 498 Seminar Course in Chinese**

Prerequisite: C or better in CHI 202 or permission of instructor and department head. Supervised independent study in Chinese language, literature, and culture. May be repeated for a maximum of 6 hours. 1-6 D

## French Courses

**FRN 101 Elementary French I**

Essentials of French language emphasizing the development of speaking, listening, reading, and writing within a culturally relevant context. Credit by Examination is available. 3(3-0) F

**FRN 102 Elementary French II**

Prerequisite: C or better in FRN 101. Continuation of FRN 101. Credit by Examination is available. 3(3-0) S

**FRN 201 Intermediate French I**

Prerequisite: C or better in FRN 102. Francophone culture through discussion of readings, films and music. Credit by Examination is available. 3(3-0) F

**FRN 202 Intermediate French II**

Prerequisite: C or better in FRN 201. A focus on literacy through compositions and readings in francophone culture. 3(3-0) S

**FRN 297 Special Topics in French**

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 inter-national 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. 1-6 D

**FRN 300 Service Learning in French**

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 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. 1 F,S

**FRN 302 Topics in French Culture**

Prerequisite: FRN 102. Topics may cover history or culture of France. May be repeated as topics change to a maximum of 3 credit hours. Variable content course. 1-3 D

**FRN 311 French Conversation**

Prerequisite: FRN 202. 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. 3(3-0) D

**FRN 312 French Grammar and Composition**

Prerequisite: FRN 202. Review of French grammar with writing practice. 3(3-0) D

**FRN 313 Francais Langue Globale**

Prerequisite: FRN 202. Study of phonetics and of the socio-cultural history of the French language. Recommended for teachers. 3(3-0) D

**FRN 314 Le Francais vivant**

Prerequisite: FRN 202. A course designed to increase French fluency and comprehension, emphasizing modern, useful French as it is spoken today by natives. Students will explore the French language in a broad range of real everyday situations. Topics include idiomatic expressions, slang, spoken contractions and the language of the internet. May be repeated, as content changes, to a maximum of 6 hours. Variable content course. 3(3-0) F

**FRN 326 Culture Populaire**

Prerequisite: FRN 202. 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. 3(3-0) D

**FRN 335 L Esprit francais**

Prerequisite: FRN 312 or permission of instructor. Through the study of artistic works, including fine arts, cinema, and literature, students will become more familiar with the origins, lives and influences of the most prominent Francophone figures and symbolic icons. Students will learn how to read, analyze, interpret, and discuss a wide selection of works and concepts in French; and to synthesize the material into an accurate and coherent picture of French literary and cultural developments. Variable content course. Repeatable up to 6 hours. 3(3-0) D

**FRN 381 French Literature from the Middle Ages to the Enlightenment**

Prerequisite: FRN 312. A survey of authors, movements, ideas, and styles, e.g., Villon, Montaigne, Rabelais, Pascal, Rousseau. 3(3-0) D

**FRN 382 French Literature of the 19th and 20th Centuries**

Prerequisite: FRN 312. A survey of representative work, e.g., Hugo, Flaubert, Camus. 3(3-0) D

**FRN 410 Translation**

Prerequisite: FRN 312. Activities and exercises on oral and written translation focusing on career fields. 3(3-0) D

**FRN 412 Le Cinema francophone**

Prerequisite: FRN 312 or permission of instructor. A study of culture, language, and literature through francophone film. Repeatable up to 6 hours. Variable content course. 3(3-0) D

**FRN 415 Vivre et Travailler en francais**

Prerequisite: FRN 312 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. 3(3-0) D

**FRN 498 Seminar Course in French**

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. 1-3 D

**FRN 525 Seminar in Francophone Literature**

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. May be taught concurrently with FRN 625. Cannot receive credit for both FRN 625 and FRN 525. 3(3-0) D

**FRN 535 Advanced French Composition and Conversation**

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. May be taught concurrently with FRN 635. Cannot receive credit for both FRN 635 and FRN 535. 3(3-0) D

### **FRN 625 Seminar in Francophone Literature**

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. May be taught concurrently with FRN 525. Cannot receive credit for both FRN 525 and FRN 625. 3(3-0), D

### **FRN 635 Advanced French Composition and Conversation**

A study of French grammar, style and modes of expression. Designed to further develop the mastery of written and spoken French. May be taught concurrently with FRN 535. Cannot receive credit for both FRN 535 and FRN 635. 3(3-0), D

## **German Courses**

### **GRM 101 Elementary German I**

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 Examination is available. 3(3-0) F

### **GRM 102 Elementary German II**

Prerequisite: C or better in GRM 101. 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 Examination is available. 3(3-0) S

### **GRM 201 Intermediate German I**

Prerequisite: C or better in GRM 102. 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 Examination is available. 3(3-0) F

### **GRM 202 Intermediate German II**

Prerequisite: C or better in GRM 201. Continuation of the development of the four skills through conversation, composition and readings as a means to access culture. 3(3-0) S

### **GRM 297 Special Topics in German**

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 inter-national 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. 1-6 D

### **GRM 300 Service Learning in German**

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. 1 F,S

### **GRM 301 Intensive Grammar Review**

Prerequisite: GRM 102. Intensive grammar review of selected topics. May be repeated with different topics to a maximum of 3 credit hours. Variable content course. 1-3 D

### **GRM 302 Topics in German(ic) Culture**

Prerequisite: GRM 102. Selected topics in culture and travel. May be repeated with different topics to a maximum of 3 credit hours. Variable content course. 1-3 D

### **GRM 303 Language and Technology**

Prerequisite: GRM 102. Issues concerning German and technology. May be repeated with different topics to a maximum of three credit hours. Variable content course. 1-3 D

### **GRM 304 Conversational Strategies**

Prerequisite: GRM 201. 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. 1-3 D

### **GRM 311 German Reading and Conversation**

Prerequisite: GRM 202. 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. 3(3-0) D

### **GRM 312 German Composition**

Prerequisite: GRM 311. 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. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

### **GRM 320 German Cinema**

Prerequisite: GRM 202. 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. 3(3-0) D

### **GRM 325 Kulturkunde der deutschsprachigen Länder**

Prerequisite: GRM 202. An introduction to major historical periods and cultural movements of the German-speaking countries. Study includes geography, history, philosophy and the arts. Variable content course. May be repeated up to 6 hours. 3(3-0) D

**GRM 400 Praktikum**

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. 1-3 D

**GRM 415 German for Professional and Business Use**

Prerequisite: GRM 311 or above. Focus on advanced speaking and reading proficiency for applied use in professional fields such as administration, international relations, global studies and business. 3(3-0) D

**GRM 455 Masterpieces of 19th Century German Literature**

Prerequisite: GRM 311 or above. Selected works or authors from the 19th century. May be repeated once with a different topic. Variable content course. 3(3-0) D

**GRM 465 Masterpieces of 20th Century German Literature**

Prerequisite: GRM 311 or above. Selected works or authors from the 20th century. May be repeated once with a different topic. Variable content course. 3(3-0) D

**GRM 475 Topics in German(ic) Literature and Culture**

Prerequisite: GRM 311 or above. Selected topics in German(ic) literature and culture. May be repeated once with a different topic. Variable content course. May be taught concurrently with GRM 375. Students enrolled in GRM 475 will complete more advanced assignments. Cannot receive credit for both GRM 375 and GRM 475. 3(3-0) D

**GRM 485 Thematic Approaches to German Literature**

Prerequisite: GRM 311 or above. 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. 3(3-0) D

**GRM 498 Seminar Course in German**

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. 1-3 D

**GRM 525 Seminar in German Literature**

Prerequisite: 60 hours and GRM 311 or above. 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. May be taught concurrently with GRM 625. Cannot receive credit for both GRM 625 and GRM 525. 3(3-0) D

**GRM 625 Seminar in German Literature**

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. May be taught concurrently with GRM 525. Cannot receive credit for both GRM 525 and GRM 625. 3(3-0), D

## Greek Courses

**GRK 101 Elementary Ancient Greek I**

Essentials of grammar and vocabulary building through reading and writing. 3(3-0) D

**GRK 102 Elementary Ancient Greek II**

Prerequisite: C or better in GRK 101. Continuation of GRK 101. 3(3-0) D

**GRK 201 Intermediate Ancient Greek III**

Prerequisite: C or better in GRK 102. Continuation of GRK 102 with increased emphasis on reading. 3(3-0) D

**GRK 202 Intermediate Ancient Greek IV**

Prerequisite: C or better in GRK 201. Introduction to Greek literature; analysis of its subjects, forms, and ideals. 3(3-0) D

**GRK 297 Special Topics in Greek**

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. 1-6 D

**GRK 301 Studies in Greek Prose**

Prerequisite: C or better in GRK 201. 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. 3(3-0) D

**GRK 302 Studies in Greek Poetry**

Prerequisite: C or better in GRK 201. 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. 3(3-0) D

**GRK 498 Seminar Course in Ancient Greek**

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. 1-3 D

**GRK 503 Advanced Greek Translation**

Prerequisite: GRK 202. Advanced training in the skills of translating and explicating texts in classical and koine Greek. May be repeated to 9 hours if topic varies. Variable content course. May be taught concurrently with GRK 603. Cannot receive credit for both GRK 603 and GRK 503. 3(3-0) D

**GRK 603 Advanced Greek Translation**

Advanced training in the skills of translating and explicating texts in classical and koine Greek. May be repeated to 9 hours if topic varies. Variable content course. May be taught concurrently with GRK 503. Cannot receive credit for both GRK 503 and GRK 603. 3(3-0), D

## Hebrew Courses

**HBW 101 Elementary Biblical Hebrew I**

The essentials of grammar and vocabulary building of Ancient Hebrew through reading and writing. 3(3-0) D

**HBW 102 Elementary Biblical Hebrew II**

Prerequisite: C or better in HBW 101. Continuation of HBW 101. 3(3-0) D

**HBW 201 Intermediate Biblical Hebrew III**

Prerequisite: C or better in HBW 102. Continuation of HBW 102, with increased emphasis on reading. 3(3-0) D

**HBW 202 Intermediate Biblical Hebrew IV**

Prerequisite: C or better in HBW 201. Introduction to Ancient Hebrew Literature; analysis of its subject, forms and ideals. 3(3-0) D

**HBW 297 Special Topics in Hebrew**

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. 1-6 D

## Italian Courses

**ITL 101 Elementary Italian I**

Essentials of Italian Language emphasizing the development of speaking, listening, reading, and writing within a culturally relevant context. 3(3-0) D

**ITL 102 Elementary Italian II**

Prerequisite: C or better in ITL 101. Continuation of ITL 101. 3(3-0) D

**ITL 201 Intermediate Italian I**

Prerequisite: C or better in ITL 102. Systematic review, expansion, and synthesis of the four skill areas. This course will enhance communication skills by providing a thorough review of fundamentals of grammar through real-life language use, reading, and composition. Credit by examination is available. 3(3-0) D

**ITL 202 Intermediate Italian II**

Prerequisite: C or better in ITL 201. Develop additional proficiency in the four communication skills: listening, reading, speaking and writing. Credit by examination is available. 3(3-0) D

**ITL 297 Special Topics in Italian**

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. 1-6 D

## Japanese Courses

**JPN 101 Elementary Japanese I**

Essentials of grammar through aural-oral practice, dictation, reading and writing. Course conducted in Japanese as far as practicable. 3(3-0) D

**JPN 102 Elementary Japanese II**

Prerequisite: C or better in JPN 101. Continuation of JPN 101. 3(3-0) D

**JPN 201 Intermediate Japanese III**

Prerequisite: C or better in JPN 102. Continuation of JPN 102 with increased emphasis on reading. 3(3-0) D

**JPN 202 Intermediate Japanese IV**

Prerequisite: C or better in JPN 201. Introduction to Japanese literature; analysis of its subjects, forms and ideals. 3(3-0) D

**JPN 297 Special Topics in Japanese**

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. 1-6 D

## Language and Literature Courses

**LLT 100 Elementary Survey of Grammar for Language Students**

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. 1(1-0) D

**LLT 102 Scientific and Medical Terminology**

A study of technical terminology as derived from Greek and Latin elements. Does not fulfill any language requirement. 2(2-0) F,S

**LLT 121 Classical Mythology**

General Education Course (Culture and Society/Humanities Perspective). A study of Greek and Roman myths and legends as they appear in art, music and literature, especially epic and tragedy. 3(3-0) F,S

**LLT 180 Hero and Quest**

General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

**LLT 197 Topics in Language and Literature**

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. 1-3 D

**LLT 215 Asian Cultural Studies**

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. 3(3-0) D

**LLT 225 German Cultural Studies**

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. 3(3-0) D

**LLT 240 Epics From Classical Antiquity**

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. 3(3-0) D

**LLT 271 Special Topics in German(ic) Literature in English Translation**

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. 3(3-0) D

**LLT 296 Major Authors in Translation**

A course in comparative literature offered in English translation covering one of the following areas: (a) Asian, (b) Germanic, (c) Latin America, (d) Latin and Greek, (e) Romance, and (f) Slavic. May be taken once under each of the six titles. Variable content course. 3(3-0) D

**LLT 321 Comparative Mythology**

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. 3(3-0) D

**LLT 325 Greek Civilization**

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, and literature's reflection of culture. Slide lectures. 3(3-0) F

**LLT 326 Roman Civilization**

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, and literature's reflection of culture. Slide lectures. 3(3-0) S

**LLT 545 Seminar in Roman Culture**

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. May be taught concurrently with LLT 645. Cannot receive credit for both LLT 645 and LLT 545. 3(3-0) D

**LLT 595 Special Topics in Classics**

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. May be taught concurrently with LLT 695. Cannot receive credit for both LLT 695 and LLT 595. 1-6 D

**LLT 596 Seminar in Hispanic Literature in Translation**

Prerequisite: 60 hours and permission of instructor or department head. Designed to acquaint the student with major authors and works in Hispanic literature offered in English translation. Topics may include special themes, historical and political developments, and cultural aspects of the works. Variable content course. May be repeated once with changed content. May be taught concurrently with LLT 696. Cannot receive credit for both LLT 696 and LLT 596. 3(3-0) D

**LLT 645 Seminar in Roman Culture**

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. May be taught concurrently with LLT 545. Cannot receive credit for both LLT 545 and LLT 645. 3(3-0), D

**LLT 695 Special Topics in Classics**

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. May be taught concurrently with LLT 595. Cannot receive credit for both LLT 595 and LLT 695. 1-6, D

**LLT 696 Seminar in Hispanic Literature in Translation**

Designed to acquaint the student with major authors and works in Hispanic literature offered in English translation. Topics may include special themes, historical and political developments, and cultural aspects of the works. Variable content course. May be repeated once with changed content. May be taught concurrently with LLT 596. Cannot receive credit for both LLT 596 and LLT 696. 3(3-0), D

## Latin Courses

**LTN 101 Elementary Latin I**

Grammar and pronunciation; vocabulary study through reading and derivative study. 3(3-0) F

**LTN 102 Elementary Latin II**

Prerequisite: C or better in LTN 101. Continuation of LTN 101. 3(3-0) S

**LTN 201 Intermediate Latin III**

Prerequisite: C or better in LTN 102. Continuation of LTN 102, with increased emphasis on reading. 3(3-0) F

**LTN 202 Intermediate Latin IV**

Prerequisite: C or better in LTN 201. Introduction to Latin literature, analysis of its subjects, forms and ideals. 3(3-0) S

**LTN 312 Latin Composition**

Prerequisite: LTN 202. Review of grammar with practice in writing, giving emphasis to style. 3(3-0) D

**LTN 450 Readings in Roman Public Affairs**

Prerequisite: LTN 202. Readings in authors (Cicero, Seneca, Cato, inter alios) and genres (oratory, philosophy, letters) treating Roman civic life. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 451 Roman Elegy and Lyric**

Prerequisite: LTN 202. 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). Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 460 Roman History**

Prerequisite: LTN 202. 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. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 461 Roman Epic**

Prerequisite: LTN 202. 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. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 470 Roman Letters and Personal Life**

Prerequisite: LTN 202. 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). Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 471 Roman Satire**

Prerequisite: LTN 202. Works of Roman satire by such authors as Horace, Petronius, Persius, Martial, and Juvenal. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 480 Research in Latin Literature**

Prerequisite: LTN 202. 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. 1(1-0) D

**LTN 485 Patristics and Late Latin Writers**

Prerequisite: LTN 202. 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. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0) D

**LTN 499 Independent Studies in Latin**

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. 1-3 D

**LTN 525 Seminar in Latin Literature**



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. May be taught concurrently with LTN 625. Cannot receive credit for both LTN 625 and LTN 525. 3(3-0) D

#### **LTN 625 Seminar in Latin Literature**

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. May be taught concurrently with LTN 525. Cannot receive credit for both LTN 525 and LTN 625. 3(3-0), D

## **Modern and Classical Languages Courses**

#### **MCL 197 Introduction to a Foreign Language**

Special elementary studies in a foreign language and culture. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. 1-6 D

#### **MCL 297 Intermediate Studies in a Foreign Language**

Special intermediate studies in a foreign language and culture. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. 1-6 D

#### **MCL 303 Coping with Culture**

This course is designed to introduce students to a discipline-specific (e.g., Hotel and Restaurant Management; Agribusiness; 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. 3(3-0) S

#### **MCL 397 Advanced Studies in a Foreign Language**

Special advanced studies in a foreign language and culture. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. 1-6 D

#### **MCL 400 Foreign Language Practicum**

Prerequisite: permission of instructor. A focused and applied course that students can combine with other language classes in order to pursue a special interest. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 1-6 D

#### **MCL 413 Teaching of Foreign Languages**

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. 3(3-1) F

#### **MCL 491 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

#### **MCL 493 Supervised Teaching (Secondary Foreign Language)**

Prerequisite: MCL 413; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches foreign language 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

#### **MCL 496 Supervised Teaching (Elementary Foreign Language)**

Prerequisite: concurrent enrollment in MCL 493. Student observes then teaches under the direction of the cooperating teacher and university supervisor. Student participates in school-related activities and attends both individual and group conferences. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

#### **MCL 497 Superior Studies in a Foreign Language**

Special superior studies in a foreign language and culture. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. 1-6 D

#### **MCL 499 Program Assessment**

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. 0(0-0) D

**MCL 500 Advanced Research in the Discipline**

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. May be taught concurrently with MCL 601. Cannot receive credit for both MCL 601 and MCL 500. 3(3-0) D

**MCL 550 Advanced Study Abroad**

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. May be taught concurrently with MCL 650. Cannot receive credit for both MCL 650 and MCL 550. 3-6 D

**MCL 597 Topics for Teachers of Foreign Languages**

Prerequisite: 60 hours. 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 up to 6 hours. Variable content course. May be taught concurrently with MCL 697. Cannot receive credit for both MCL 697 and MCL 597. 1-6 D

**MCL 610 Advanced Research in the Discipline**

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. 3(3-0), D

**MCL 650 Advanced Study Abroad**

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. May be taught concurrently with MCL 550. Cannot receive credit for both MCL 550 and MCL 650. 3-6, D

**MCL 697 Topics for Teachers of Foreign Languages**

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 up to 6 hours. Variable Content Course. 1-6, D

**MCL 700 Advanced Language Teaching Methods and Technology**

This course will acquaint language teachers with current second language research and teaching practice, with emphasis on the uses of technology. 3(3-0) D

**MCL 799 Thesis**

Prerequisite: permission of instructor. 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. 1-6, D

## Portuguese Courses

**PTG 101 Elementary Portuguese I**

Develop proficiency in the four communication skills: listening, reading, speaking, and writing. These skills are essential to effective communication in the target language. 3(3-0) D

**PTG 102 Elementary Portuguese II**

Prerequisite: C or better in PTG 101. Develop additional proficiency in the four communication skills: listening, reading, speaking, and writing. These skills are essential to effective communication in the target language. 3(3-0) D

**PTG 201 Intermediate Portuguese I**

Prerequisite: C or better in PTG 102. Systematic review, expansion, and synthesis of the four skill areas. This course will enhance communication skills by providing a thorough review of fundamentals of grammar through real-life language use, reading, and composition. Credit by examination is available. 3(3-0) D

**PTG 202 Intermediate Portuguese II**

Prerequisite: C or better in PTG 201. Continued development of the four skills areas through conversation, composition, and reading as a means to access culture. Credit by examination is available. 3(3-0) D

**PTG 297 Special Topics in Portuguese**

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. 1-6 D

## Russian Courses

**RUS 101 Elementary Russian I**

Essentials of grammar through aural-oral practice, dictation, reading, and writing. Course conducted in Russian as far as practicable. 3(3-0) D

**RUS 102 Elementary Russian II**

Prerequisite: C or better in RUS 101. Continuation of RUS 101. 3(3-0) D

**RUS 201 Intermediate Russian III**

Prerequisite: C or better in RUS 102. Continuation of RUS 102 with emphasis on reading, conversation, and an introduction to Russian History and culture. 3(3-0) D

**RUS 202 Intermediate Russian IV**

Prerequisite: C or better in RUS 201. Continuation of RUS 201 with emphasis on reading, conversation, history, and culture. 3(3-0) D

**RUS 297 Special Topics in Russian**

Prerequisite: permission of instructor and department head. Topics of selected interest in Russian studies, including travel-courses to Russian 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 hours. Variable content course. 1-6 D

**RUS 498 Seminar Course in Russian**

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. 1-3 D

## Spanish Courses

**SPN 101 Elementary Spanish I**

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 Examination is available. 3(3-0) F,S

**SPN 102 Elementary Spanish II**

Prerequisite: C or better in SPN 101. 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 Examination is available. 3(3-0) F,S

**SPN 201 Intermediate Spanish I**

Prerequisite: C or better in SPN 102. 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 Examination is available. 3(3-0) F,S

**SPN 202 Intermediate Spanish II**

Prerequisite: C or better in SPN 201. Continuation of the development of the four skills through conversation, composition and reading as a means to access culture. 3(3-0) F,S

**SPN 205 Spanish Proficiency Skills**

Prerequisite: C or better in SPN 201. 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. 3(3-1) F,S

**SPN 297 Special Topics in Spanish**

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. 1-6 D

**SPN 300 Service Learning in Spanish**

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. 1 F,S

**SPN 312 Spanish Composition**

Prerequisite: SPN 202 or SPN 205. Review of grammar with writing practice; emphasis on idioms. 3(3-0) F,S

**SPN 314 Advanced Spanish Proficiency Skills**

Prerequisite: SPN 312. This course examines recent historical events and current popular trends and movements using multiple media sources (films, the Internet, magazines, songs, music, photographs and television) to better understand contemporary Hispanic/Spanish culture. The focus of the class is on the development of topics for conversational content, analysis, presentations and written essays in Spanish. 3(3-0) F,S

**SPN 320 Hispanic Cinema**

Prerequisite: SPN 312. 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. 3(3-1) F

**SPN 324 Topics in Spanish Linguistics**

Prerequisite: SPN 312. Develops students' understanding of issues in Spanish linguistics by exploring such topics as phonetics and phonology, morphology and syntax, semantics, history of the language, and regional and social language variation. May be repeated one with different content. Variable content Course. 3(3-0), F

**SPN 325 Civilization of Spain**

Prerequisite: SPN 312. Origin and development of Iberian culture; includes geography, history, philosophy and arts. 3(3-0) F,S

**SPN 326 Civilization of Spanish America**

Prerequisite: SPN 312. Origin and development of Spanish American culture; includes geography, history, philosophy, and arts. 3(3-0) F,S

**SPN 340 Introduction to Reading and Writing in Spanish**

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. 3(3-0) S

**SPN 410 Translation**

Prerequisite: SPN 312. Activities and exercises in oral and written translation focusing on career fields. 3(3-0) F,S

**SPN 415 Business and Professional Spanish**

Prerequisite: SPN 312 or higher. Specialized and intensive training in Spanish as used in business and selected professions. 3(3-0) F

**SPN 450 Modern Peninsular Literature**

Prerequisite: SPN 312. Selected works or authors from Modern Peninsular literature. May be repeated once with a different topic. Variable content course. 3(3-0) F

**SPN 460 Spanish American Literature**

Prerequisite: SPN 312. Selected works or authors from Spanish American Literature. May be repeated once with a different topic. Variable content course. 3(3-0) S

**SPN 480 Directed Readings**

Prerequisite: permission of instructor and department head. May be repeated to a total of 6 hours. 1-3 D

**SPN 510 Advanced Translation**

Prerequisite: SPN 410. Builds on the translation and interpreting skills acquired in SPN 410. Students will be exposed to a variety of translation theories and methods and will increase their overall language proficiency as they gain further practical translation experience in a number of genres. May be taught concurrently with SPN 610. Cannot receive credit for both SPN 610 and SPN 510. 3(3-0) D

**SPN 525 Seminar in Spanish Literature**

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. May be taught concurrently with SPN 625. Cannot receive credit for both SPN 625 and SPN 525. 3(3-0) D

**SPN 535 Advanced Spanish Composition and Conversation**

Prerequisite: SPN 312. A study of Spanish grammar, style and modes of expression. Designed to further develop the mastery of spoken and written Spanish. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. May be taught concurrently with SPN 635. Cannot receive credit for both SPN 635 and SPN 535. 3(3-0) D

**SPN 610 Advanced Translation**

Builds on the translation and interpreting skills acquired in SPN 410. Students will be exposed to a variety of translation theories and methods and will increase their overall language proficiency as they gain further practical translation experience in a number of genres. May be taught concurrently with SPN 510. Cannot receive credit for both SPN 510 and SPN 610. 3(3-0), D

**SPN 625 Seminar in Spanish Literature**

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. May be taught concurrently with SPN 525. Cannot receive credit for both SPN 525 and SPN 625. 3(3-0), D

**SPN 635 Advanced Spanish Composition and Conversation**

A study of Spanish grammar, style and modes of expression. Designed to further develop the mastery of spoken and written Spanish. Variable content course. May be repeated, as content changes, to a maximum of 6 hours. 3(3-0), D

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## Department of Music

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### Faculty (as of July 15, 2011)

**Professors:** Lisa R. Casey, D.M.A.; Michael R. Casey, M.M.E.; Peter F. Collins, D.M.A.; Randall P. Hamm, M.M.; David R. Hays, D.M.A.; Jill L. Heyboer, D.M.A.; Jerry W. Hoover, M.M.; Cynthia Green Libby, D.M.A.; Amy F. Muchnick, D.M.A.; Michael F. Murray, D.M.A.; Michael A. Murray, D.M.A.; James Parsons, Ph.D.; Grant S. Peters, D.M.A.; Belva W. Prather, Ed.D.; John S. Prescott, D.M.A.; Robert C. Quebbeman, D.M.A.; Roger Stoner, D.M.A.; Wei-Han Su, D.M.A.; Guy B. Webb, D.M.A.

**Associate Professors:** J. Scott Cameron, D.M.A.; Jeremy A. Chesman, D.M.A.; Daniel S. Hellman, Ph.D.; Richard Todd Payne, D.M.A.; Allison M. Storochuk, D.M.A.; Chris A. Thompson, D.M.A.

**Assistant Professors:** Hye-Jung Hong, D.M.A.; Paula K. Patterson, Ed.D.

**Instructor:** Carol L. Chapman, M.M.

**Emeritus Professors:** Lloyd G. Blakely, D.M.A.; Wynne Harrell, D.M.A.; William W. Hartman, M.A.; Johnnie W. Johnson, M.M.; Norma D. McClellan, Ph.D.; Mollie Autry Molnar, D.M.A.; Rose Mary Owens, Ph.D.; Patricia Pierce, M.M.; Robert M. Scott, M.S.

### Accreditation

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.

### Fine Arts Courses

Fine Arts courses are available. Refer to the Bachelor of Arts degree requirements in the specific [Degrees, Programs and Requirements](#) section of the catalog for a listing of the courses.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

**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. See Music Department web site for dates. All students will be required to demonstrate, through successful completion of a Music Theory Entrance Exam, 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).

**Admission to Degree Program:** All BA, BM, and BME majors must apply to formal admission to the degree program. This typically will occur at the end of the sophomore year, and must be completed before the student has finished 75 hours. In order to be admitted to the degree program, students must pass MUS 298, the piano proficiency exam, and have a cumulative GPA of at least 2.50 and a GPA of at least 2.75 in Music courses. Students who have not been formally admitted to the degree program will be unable to enroll in 300-level and above applied study. Students must also have a passing score on the Music Theory Entrance Exam before enrolling in MUS 103.

**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.

**General Education Restriction:** At most, two Music courses may count toward the general education requirements.

**Applied Music 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 and minors (see "Costs and Fees" section of catalog). Applied music courses: MUS 149, 249, 349, 449; 151, 251, 351, 451; 152, 252, 352, 452; 153, 253, 353, 453; 155, 255, 355, 455; 156, 256, 356, 456; 157, 257, 357, 457; 158, 258, 358, 458; 159, 259, 359, 459; 160, 260, 360, 460.

**Ensembles:** All ensemble courses may be repeated for credit. Only eight hours of ensembles can be counted toward a degree. Ensembles courses: MUS 162, 262, 362, 462; 165, 265, 365, 465; 168, 268, 368, 468; 172, 272, 372, 472; 173, 273, 373,

473; 174, 274, 374, 474; 175, 275, 375, 475; 176, 276, 376, 476; 178, 278, 378, 478; 192, 292, 392, 492; 193, 293, 393, 493; 280, 380, 480.

## Graduate Programs

The following graduate programs are available:

Master of Music degree; and Secondary Education with an option in Music (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

## General Information

**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 (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. Students must also have a passing score on the Music Theory Entrance Exam before enrolling in MUS 103.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (38 hours)
  - 1. Basic Theory (9 hours): MUS 103(3), 104(3), 203(3)
  - 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.
  - 4. Performing Ensemble electives (4 hours)
  - 5. Additional electives (10 hours) select from: MUS 204(3), 313(2), 314(2), 315(2), 321(2), 327(2), 328(2), 512(3), 518(2), 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)
  - 7. Pass Piano Proficiency Examination
  - 8. Upper Division Applied Status: MUS 298(0)
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### 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. Students must also have a passing score on the Music Theory Entrance Exam before enrolling in MUS 103.

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:

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (80-89 hours)
  - 1. Music Core Requirements (35 hours)
    - a. Foreign Language (6 hours) select from: French, German, or Italian
    - b. Basic Theory (12 hours): MUS 103(3), 104(3), 203(3), 204(3)
    - 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. Upper Division Applied Status: MUS 298(0)
  - 2. Choose one of the following options:
    - a. **Composition** (52-53 hours)
      - 1. Composition (15 hours): MUS 498(2) and 13 additional hours selected from: MUS 327(2), 516(2-4), 517(2-

- 4), 520(2-4), 521(2-4)
  2. Advanced Music History/Literature (5-6 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 Ensemble (1 hour) 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)
    - 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 (46-47 hours)**
1. Advanced Music History/Literature (5-6 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), must include MUS 398(2-4) and MUS 498(2-4)
- c. Jazz Performance (46-47 hours)**
1. Jazz Studies (14 hours)
    - a. Jazz Theory/Jazz Keyboard Skills (2 hours): MUS 119(2)
    - b. Jazz Improvisation (6 hours): MUS 219(2), 220(2), 319(2)
    - c. Jazz History (3 hours): MUS 347(3)
    - d. Jazz Arranging (3 hours): MUS 526(3) Jazz section only
  2. Advanced Music History (6 hours) select from: MUS 543(3), 544(3), 545(3), 546(3), 547(3)
  3. Advanced Music Theory (6-7 hours) select from: MUS 313(2), 314(2), 315(2), 327(2), 328(2), 529(3)
  4. Large Ensemble-Jazz (4 hours) as determined by audition: Select from: MUS 174(1), 274(1), 374(1), 474(1)
  5. Small Ensemble-Jazz Symposium (6 hours) as determined by audition: Select from: MUS 172(1), 272(1), 372(1), 472(1) Jazz section only
  6. Applied Music (10 hours), must include MUS 398(2-4) and MUS 498(2-4)
- d. Keyboard Performance (46-47 hours)**
1. Advanced Music History/Literature (5-6 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), must include MUS 398(2-4) and MUS 498(2-4)
- e. Vocal Performance (52-53 hours)**
1. Advanced Music History/Literature (5-6 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 (4 hours): MUS 172(1), 193(1), 272(1), 372(1), 472(1)
5. Pedagogy (2 hours): MUS 530(2)
6. Applied Music (21 hours), must include MUS 398(2-4) and MUS 498(2-4)
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 [General Baccalaureate Degree 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. Students must also have a passing score on the Music Theory Entrance Exam before enrolling in MUS 103.

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.

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (94 hours)

1. Music Theory (14 hours): MUS 103(3), 104(3), 203(3), 204(3), 315(2)
2. Music History/Literature (9 hours): MUS 239(3), 345(3), 346(3)
3. Music Education courses (46 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 (7 hours): MUS 131(1), 133(1), 141(1), 142(1), 144(1), 145(1), 146(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 (10 hours): MUS 494(5), 496(5). Subject to the standard guidelines for Field Service Experience in the College of Education
4. Piano (3 hours – may be waived by examination): MUS 137(1), 138(1), 237(1)
5. Instrumentation (2 hours): MUS 328(2)
6. Applied Music-Major Instrument: (14 hours), must include MUS 498
7. Recital Attendance: MUS 107(0), 108(0), 207(0), 208(0), 307(0), 308(0), 407(0)
8. Upper Division Applied Status: MUS 298(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 [General Baccalaureate Degree 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. Students must also have a passing score on the Music Theory Entrance Exam before enrolling in MUS 103.

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.

A. General Education Requirements - see **General Education Program and Requirements** section of catalog

B. Major Requirements (94 hours)

1. Music Theory (14 hours): MUS 103(3), 104(3), 203(3), 204(3), 315(2)
2. Music History/Literature (9 hours): MUS 239(3), 345(3), 346(3)
3. Music Education courses (45 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(1), 295(1), 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 (10 hours): MUS 494(5), MUS 496(5). Subject to the standard guidelines for Field Service Experience in the College of Education.

\*These courses meet DESE assessment and classroom management competencies.

4. Piano (3 hours – may be waived by examination): MUS 137(1), 138(1), 237(1)
5. Choral Arranging (2 hours): MUS 518(2)
6. Applied Music (14 hours): MUS 498(2), and 12 additional hours from MUS 153(1), 253(1), 353(1), 453(1)
7. Recital Attendance: MUS 107(0), 108(0), 207(0), 208(0), 307(0), 308(0), 407(0)
8. Upper Division Applied Status: MUS 298(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 **General Baccalaureate Degree 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.

### Vocal/Choral or Instrumental Optional Endorsements (Certifiable grades K-12)

Bachelor of Music Education

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)
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)
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)
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

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 and March 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 Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (83 hours)

1. Acting (14 hours): THE 121(3), 221(3), 321(3), 421(3), 451(2)
2. Applied Voice (11 hours): MUS 298(0), 498(2-4); and from MUS 153, 253, 353, and 453(1-2)
3. Stage Voice and Movement (9 hours): THE 122(3), 226(2), 328(3), 424(1)
4. History/analysis (9 hours): THE 130(3); MUS 343(3), 344(3)
5. Technology (10 hours): THE 150(2), 151(1), 224(1), and select 6 hours from: THE 250(2) and 251(1); THE 255(2) and 256(1); THE 260(2) and 261(1)
6. Musicianship (4 hours): MUS 103(3), 137(1)
7. Dance (12 hours): select from (by placement) DAN 117(2), 131(2), 216(3), 225(1), 230(3), 245(3), 325(1), 345(3)
8. Musical Theatre Practicum (8 hours) select from: MUS 193(1), 280(2), 380(2), 480(2); THE 495(1)
9. Electives (6 hours): choose from Theatre, Music, or Dance courses with approval of advisor

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Music

Bachelor of Arts  
Bachelor of Science

- A. Basic Theory (6 hours): MUS 103(3), 104(3)
- 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.

A. **Instrumental Option** (41 hours):

1. Basic Theory (9 hours): MUS 103(3), 104(3), 203(3)
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), 141(1), 142(1), 143(1), 144(1), 145(1), 146(1)
6. Applied music on a single instrument (4 hours):
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)

**B. Vocal Option (40 hours):**

1. Basic Theory (9 hours): MUS 103(3), 104(3), 203(3)
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).
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.

### Music Composition

Bachelor of Arts  
Bachelor of Music  
Bachelor of Science

- A. Basic Theory (6 hours): MUS 103(3), 104(3)
- B. Advanced Theory (10 hours): MUS 313(2) or 314(2); 328(2) or 518(2); 512(3), 529(3)
- C. Composition (6 hours): MUS 327(2), 516(2), 517(2)

### Recording Arts

Bachelor of Arts  
Bachelor of Music  
Bachelor of Science

- A. Basic Theory (3 hours): MUS 103(3)
- B. Piano Class (1 hour): MUS 137(1)
- C. Audio Techniques (9 hours): MUS 216(3), 316(3), 416(3)
- D. Advanced Theory (6 hours): MUS 512(3), 529(3)

### Music Courses

#### MUS 100 Music Fundamentals

Rudiments of music (scales, key signatures, rhythms, intervals, notation) with their application within the context of music. Credit by Examination is available. 2(2-0) S

#### MUS 101 Beginning Piano

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. 1(0-2) F,S

#### MUS 103 Theory and Musicianship I

Prerequisite: passing score on the Music Theory Entrance Exam. Review and drill of music fundamentals; notation, clefs, intervals, scales, rhythm and meter; music terms; written and oral construction of triads and seventh chords; analysis and writing of four-part harmony; non-harmonic tones, cadences, figured bass. Sight singing and dictation of melodies and rhythms; intervals and chord quality identification; error detection. Credit by Examination is available. 3(1-4), F

#### MUS 104 Theory and Musicianship II

Prerequisite: MUS 103. Four-part harmony incorporated all diatonic chords in all inversions; secondary dominant and secondary leading tone chords. Sight singing and dictation of melodies and rhythms; intervals and chord quality identification; error detection; dictation of four-part harmony. Credit for Examination is available. 3(1-4), S

#### MUS 107 Recital Attendance I

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. 0(0-0) F,S

**MUS 108 Recital Attendance II**

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. 0(0-0) F,S

**MUS 119 Jazz Theory/Jazz Keyboard Skills**

Prerequisite: MUS 103. The study of jazz theory and the practical application of functional jazz keyboard skills. 2(2-0), S

**MUS 130 Multicultural Musical Instrument Techniques**

Techniques of both the performance and pedagogy of traditional instruments from cultures other than those in the Western/European tradition. Variable content course. 1(0-2), D

**MUS 131 String Techniques and Skills for the Music Educator**

Instruction in the basic skills of playing and teaching violin, viola, cello and bass in a class situation. Examination of performance problems, diagnostic techniques, teaching strategies, and other specialized topics related to string instruction will be studied, and materials used in public school teaching will be examined and performed. 1(0-2) S

**MUS 133 Guitar for the Music Educator I**

Provides future music teachers with the working knowledge, experience and skills to use the guitar for accompanying music making as well as for teaching fretted instruments in school music classes and ensembles. 1(0-2) F,S

**MUS 135 Voice Class I**

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. 1(0-2) F

**MUS 136 Voice Class II**

Prerequisite: MUS 135. Application of vocal principles is given on individual basis with the introduction of interpretation, style, and Italian diction. 1(0-2) F,S

**MUS 137 Piano Class I**

Prerequisite: MUS 100 or MUS 103. Coordination exercises, major scales, harmonization with I, IV, V7 chords, transposition, reading, elementary repertoire. Credit by Examination is available. 1(0-2) F,S

**MUS 138 Piano Class II**

Prerequisite: MUS 137. Minor scales, harmonization of major and minor melodies, transposition, reading, repertoire. Credit by Examination is available. 1(0-2) F,S

**MUS 139 Instrument Maintenance**

Prerequisite: MUS 133. Instrument repair, source of difficulty and solution of minor problems. Experience in replacing cork, springs, pads and adjustments of instruments. 1(0-2) F,S

**MUS 141 Single Reed Techniques and Skills for the Music Educator**

Introduction in the basic skills and playing and teaching clarinet and saxophone in a class situation. Examination of performance problems, diagnostic techniques, teaching strategies, and other specialized topics related to woodwind instruction will be studied, and materials used in public school teaching will be examined and performed. 1(0-2) F

**MUS 142 Flute and Double Reed Techniques and Skills for the Music Educator**

Introduction in the basic skills of playing and teaching flute and double reeds in a class situation. Examination of performance problems, diagnostic techniques, teaching strategies, and other specialized topics related to woodwind instruction will be studied, and materials used in public school teaching will be examined and performed. 1(0-2) S

**MUS 144 High Brass Techniques and Skills for the Music Educator**

Introduction in the basic skills of playing and teaching trumpet and horn in a class situation. Examination of performance problems, diagnostic techniques, teaching strategies, and other specialized topics related to woodwind instruction will be studied, and materials used in public school teaching will be examined and performed. 1(0-2) F

**MUS 145 Low Brass Techniques and Skills for the Music Educator**

Introduction in the basic skills of playing and teaching trombone and euphonium or tuba in a class situation. Examination of performance problems, diagnostic techniques, teaching strategies, and other specialized topics related to brass instruction will be studied, and materials used in public school teaching will be examined and performed. 1(0-2) S

**MUS 146 Percussion Techniques and Skills for the Music Educator I**

Introduction in the basic skills of playing and teaching percussion instruments in a class situation. Examination of performance problems, diagnostic techniques, teaching strategies, and other specialized topics related to percussion instruction will be studied, and materials used in public school teaching will be examined and performed. 1(0-2) F

**MUS 148 Introduction to Music Teaching**

This course is an orientation to the music education profession and to the teacher education program. Students explore roles and responsibilities of music teachers, complete field observations (minimum of 10 hours), develop a preliminary portfolio, and

complete projects designed to examine the skills involved in teaching music. The field observation component requires the student to carry educational liability insurance and register with the Missouri Family Care Safety Registry (FCSR). 1(1-1) F,S

**MUS 149 String (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, bass viola. May be repeated for credit. 1-4 F,S

**MUS 151 Piano**

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit. 1-4 F,S

**MUS 152 Organ**

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit. 1-4 F,S

**MUS 153 Voice**

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit. 1-4 F,S

**MUS 155 Woodwind (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, saxophone. May be repeated for credit. 1-4 F,S

**MUS 156 Brass (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in horn, trumpet, trombone, baritone, and tuba. May be repeated for credit. 1-4 F,S

**MUS 157 Percussion**

Prerequisite: permission of instructor. Applied instruction in percussion instruments. May be repeated for credit. 1-4 F,S

**MUS 158 Guitar**

Prerequisite: permission of instructor. Applied instruction in classical guitar. May be repeated for credit. 1-4 F,S

**MUS 159 Harp**

Prerequisite: permission of instructor. Applied instruction in harp. May be repeated for credit. 1-4 F,S

**MUS 160 Carillon**

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit. 1-4 F,S

**MUS 162 Collegiate Chorale**

Chorus studies masterpieces of choral literature through preparation and performance of selected compositions; Spring Concert is presented yearly. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 165 Chamber Singers**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 168 Concert Chorale**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 172 Small Ensemble**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 173 String Orchestra Workshop**

Prerequisite: permission of instructor. Study, performance of the literature and style of music for string ensembles of all sizes, a conducted group. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(1-1) F,S

**MUS 174 Jazz Ensemble**

Prerequisite: permission of instructor. Laboratory course in instrumentation, materials, arranging and organization of Jazz Ensemble. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 175 Band**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 176 University Symphony**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 178 University/Community Band**

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. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 192 Accompanying**

Prerequisite: permission of instructor. Development of skills in accompanying for pianist. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 193 Opera Workshop**

Preparation and production of opera as it pertains to singing actors and ensembles. Technical preparation, lighting, set design, set building. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 200 Principles and General Methods of Music Education**

Prerequisite: MUS 148. This serves as the gateway course to the teacher music education program. An overview of school organization, management techniques, goals, objectives, assessment, technology, curriculum preparation, unit planning, and diversity as a knowledge base for K-12 music teachers is developed through student projects. Students participate in a 30-hour field experience in area schools. The portfolio checkpoint required for admission to teacher education will occur during this course. A grade of "C" or better in this course and a minimum score of 265 on each section of the C-BASE exam is required to be admitted to the teacher education program. The field observation component requires the student to carry educational liability insurance, a TB test, and registration with the Missouri Family Care Safety Registry (FCSR). 3(2-4) F,S

**MUS 203 Theory and Musicianship III**

Prerequisite: MUS 104. Chromatic harmony including borrowed chords and augmented sixth chords; elementary and advanced modulation; smaller forms. Sight singing and dictation of melodies and rhythms; error detection; modulation to closely related keys; dictation and identification of chromatic harmony. 3(1-4), F

**MUS 204 Theory and Musicianship IV**

Prerequisite: MUS 203. Advanced chromatic harmony; twentieth-century and contemporary techniques; larger forms. Sight singing and dictation of melodies and rhythms; error detection; harmonic dictation; diatonic modes and other non-tonal scales; improvisation. 3(1-4), S

**MUS 207 Recital Attendance III**

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 preapproved 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. 0(0-0) F

**MUS 208 Recital Attendance IV**

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 preapproved 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. 0(0-0) F,S

**MUS 216 Introduction to Audio Techniques**

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 Examination is available. 3(2-2) F,S

**MUS 219 Jazz Improvisation I**

Prerequisite: MUS 104. The study of beginning improvisation including chord/scale relationship, ii-V-I in all twelve major keys, blues, standards, and solo transcription. 2(1-2) D

**MUS 220 Jazz Improvisation II**

Prerequisite: MUS 219. 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. 2(1-2) D

**MUS 235 Voice Class III**

Prerequisite: MUS 136. Application and vocal principles is given on an individual basis with repertoire and diction in Italian, German, and French. 1(0-2) F,S

**MUS 236 Voice Class IV**

Prerequisite: MUS 235. 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. 1(0-2) F,S

**MUS 237 Piano Class III**

Prerequisite: MUS 138. Chord patterns for harmonization using secondary chords, broken chords, instrumental and vocal scores, ensemble playing, repertoire. Credit by Examination is available. 1(0-2) F,S

**MUS 238 Piano Class IV**

Prerequisite: MUS 237. Modern harmonization, diminished and augmented chords, arpeggios, instrumental and vocal scores, ensemble-solo-duo playing. Credit by Examination is available. 1(0-2) F,S

**MUS 239 Introduction to World Music**

General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

**MUS 241 The Language of Music**

General Education Course (Self-Understanding/Creativity and Vision Perspective). 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. 3(3-0) F,S

**MUS 249 String Instrument**

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, bass viol. May be repeated for credit. 1-4 F,S

**MUS 251 Piano**

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit. 1-4 F,S

**MUS 252 Organ**

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit. 1-4 F,S

**MUS 253 Voice**

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit. 1-4 F,S

**MUS 255 Woodwind (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, saxophone. May be repeated for credit. 1-4 F,S

**MUS 256 Brass (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in horn, trumpet, trombone, baritone, and tuba. May be repeated for credit. 1-4 F,S

**MUS 257 Percussion**

Prerequisite: permission of instructor. Applied instruction in percussion instruments. May be repeated for credit. 1-4 F,S

**MUS 258 Guitar**

Prerequisite: permission of instructor. Applied instruction in classical guitar. May be repeated for credit. 1-4 F,S

**MUS 259 Harp**

Prerequisite: permission of instructor. Applied instruction in harp. May be repeated for credit. 1-4 F,S

**MUS 260 Carillon**

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit. 1-4 F,S

**MUS 262 Collegiate Chorale**

Chorus studies masterpieces of choral literature through preparation and performance of selected compositions; Spring Concert is presented yearly. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 265 Chamber Singers**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 268 Concert Chorale**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 272 Small Ensemble**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 273 String Orchestra Workshop**

Prerequisite: permission of instructor. Study, performance of the literature and style of music for string ensembles of all sizes, a conducted group. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(1-1) F,S

**MUS 274 Jazz Ensemble**

Prerequisite: permission of instructor. Laboratory course in instrumentation, materials, arranging and organization of Jazz Ensemble. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 275 Band**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 276 University Symphony**

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. May be repeated for credit. Only 8 hours of ensembles can

be counted toward a degree. 1(0-2) F,S

**MUS 278 University/Community Band**

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. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 280 Musical Theatre Workshop**

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. Only 8 hours of ensembles can be counted toward a degree. 2(0-4) F,S

**MUS 292 Accompanying**

Prerequisite: permission of instructor. Development of skills in accompanying for pianist. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 293 Opera Workshop**

Preparation and production of opera as it pertains to singing actors and ensembles. Technical preparation, lighting, set design, set building. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 294 Singing Diction I**

Proper pronunciation of English, German, and Latin; mastery of the International Phonetic Alphabet. 1(0-2) F

**MUS 295 Singing Diction II**

Prerequisite: MUS 294. Proper pronunciation of Italian and French; continued application of the International Phonetic Alphabet. 1(0-2) S

**MUS 298 Upper Division Applied Status**

Prerequisite: permission of instructor. Audition required by the end of the sophomore year of all music majors for placement into upper division Applied Music. Specific requirements may vary by Applied Division. Graded Pass/Not Pass only. 0(0-0) F,S

**MUS 301 Service Learning in Music**

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. 1 F,S

**MUS 305 Survey of Classroom Instruments**

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. 2(2-0) FE

**MUS 307 Recital Attendance V**

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. 0(0-0) F,S

**MUS 308 Recital Attendance VI**

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. 0(0-0) F,S

**MUS 309 Introduction to Music and Healing**

Prerequisite: ability to read music and permission of the instructor. Introduction to the history and current practices in the field of therapeutic music, as an integrated service-learning (ISL) class. Students will learn to play the portable folk harp, and provide 15 hours of therapeutic music at the bedsides of patients in local hospitals or hospices. 3(2-2) S

**MUS 313 16th Century Counterpoint**

Prerequisite: MUS 204. Analysis and writing in the style of the vocal music of the late Renaissance as embodied in the sacred vocal works of Palestrina. 2(2-0) SE

**MUS 314 18th Century Counterpoint**

Prerequisite: MUS 204. Analysis and writing in the style of the instrumental music of the late Baroque as embodied in the keyboard works of J.S. Bach. 2(2-0) SO

**MUS 315 Form and Analysis**

Prerequisite: MUS 204. The study of formal aspects of music, ranging from smaller structural units to complete movements. Analysis of forms and styles from selected historical periods. 2(2-0) F,S

**MUS 316 Advanced Audio Recording Techniques**

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. 3(2-2) F

**MUS 319 Jazz Improvisation III**

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. 2(1-2) D

**MUS 321 Conducting**

Prerequisite: MUS 204. Fundamentals of conducting, with emphasis upon basic baton techniques, transposition and score reading. 2(2-0) F,S

**MUS 322 Conducting-Choral**

Prerequisite: MUS 321. Conducting techniques specifically related to choral music. 2(2-0) S

**MUS 323 Conducting-Instrumental**

Prerequisite: MUS 321. Conducting techniques specifically related to instrumental music. 2(2-0) S

**MUS 327 Composition Class**

Prerequisite: MUS 103. Requires composition of short musical pieces using a variety of styles, and the analysis of works by 20th century composers. 2(2-0) S

**MUS 328 Instrumentation**

Prerequisite: MUS 204. Techniques, arranging, scoring and transcribing for large and small ensembles; with attention given to the practical application in a teaching situation. 2(2-0) F

**MUS 337 Piano Class V**

Prerequisite: MUS 238. 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 Examination is available. 1(0-2) F,S

**MUS 338 Piano Class VI**

Prerequisite: MUS 337. 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 Examination is available. 1(0-2) F,S

**MUS 340 Adaptive Music for Special Learners**

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. 2(2-0) F

**MUS 343 Musical Theatre History I**

Development of musical theatre in England, continental Europe and America from The Beggar's Opera, 1728 to Show Boat, 1927. 3(2-2) F

**MUS 344 Musical Theatre History II**

Development of musical theatre mainly in America from Show Boat, 1927 to present. 3(2-2) S

**MUS 345 Music in Western Culture and Society I**

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F

**MUS 346 Music in Western Culture and Society II**

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) S

**MUS 347 History of Jazz in American Culture**

The development of jazz music in America. The historical unfolding of jazz art music and developmental advances from early 20th century to the present. 3(3-0), S

**MUS 349 String (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, bass viol. May be repeated for credit. 1-4 F,S

**MUS 351 Piano**

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit. 1-4 F,S

**MUS 352 Organ**

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit. 1-4 F,S

**MUS 353 Voice**

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit. 1-4 F,S

**MUS 355 Woodwind (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, saxophone. May be repeated for credit. 1-4 F,S

**MUS 356 Brass (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in French horn, trumpet, trombone, baritone, tuba. May be repeated for credit. 1-4 F,S

**MUS 357 Percussion**

Prerequisite: permission of instructor. Applied instruction in percussion instruments. May be repeated for credit. 1-4 F,S

**MUS 358 Guitar**

Prerequisite: permission of instructor. Applied instruction in classical guitar. May be repeated for credit. 1-4 F,S

**MUS 359 Harp**

Prerequisite: permission of instructor. Applied instruction in harp. May be repeated for credit. 1-4 F,S

**MUS 360 Carillon**

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit. 1-4 F,S

**MUS 362 Collegiate Chorale**

Chorus studies masterpieces of choral literature through preparation and performance of selected compositions; Spring Concert is presented yearly. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 365 Chamber Singers**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 368 Concert Chorale**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 372 Small Ensemble**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 373 String Orchestra Workshop**

Prerequisite: permission of instructor. Study, performance of the literature and style of music for string ensembles of all sizes, a conducted group. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(1-1) F,S

**MUS 374 Jazz Ensemble**

Prerequisite: permission of instructor. Laboratory course in instrumentation, materials, arranging and organization of Jazz Ensemble. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 375 Band**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 376 University Symphony**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 378 University/Community Band**

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. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 380 Musical Theatre Workshop**

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. Only 8 hours of ensembles can be counted toward a degree. 2(0-4) F,S

**MUS 392 Accompanying**

Prerequisite: permission of instructor. Development of skills in accompanying for pianist. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 393 Opera Workshop**

Preparation and production of opera as it pertains to singing actors and ensembles. Technical preparation, lighting, set design, set building. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 398 Junior Recital**

Prerequisite: MUS 298. 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 pass a recital hearing before the performance can occur. Supplemental course fee. 2-4 F,S

**MUS 399 Special Topics in Music**

Prerequisite: permission of instructor. Topic of interest determined by student and professor. May be repeated, as topics change, to maximum of 6 credit hours. Variable content course. 1-3 D

**MUS 407 Recital Attendance VII**

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. 0(0-0) F,S

**MUS 410 Secondary Choral Methods and Materials**

Prerequisite: admission to Teacher Education Program, MUS 204 and MUS 322 and MUS 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. 3(3-0) F

**MUS 411 Secondary Instrumental Methods and Materials**

Prerequisite: admission to Teacher Education Program, MUS 204 and MUS 328 and 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). 3(3-0) F

**MUS 416 Recording Arts Practicum**

Practice in the recording studio environment, creating CD-quality music and soundtracks. Instruction will be provided in session conduct as well as advanced operations in tracking, editing, and mixing. 3(2-2) S

**MUS 430 Teaching of Music in the Grades**

Prerequisite: admission to Teacher Education Program. Methods of teaching music in the elementary schools. Credited only on Bachelor of Music Education degree. 3(2-2) S

**MUS 449 String (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, bass viol. May be repeated for credit. 1-4 F,S

**MUS 451 Piano**

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit. 1-4 F,S

**MUS 452 Organ**

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit. 1-4 F,S

**MUS 453 Voice**

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit. 1-4 F,S

**MUS 455 Woodwind (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, saxophone. May be repeated for credit. 1-4 F,S

**MUS 456 Brass (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in horn, trumpet, trombone, baritone, and tuba. May be repeated for credit. 1-4 F,S

**MUS 457 Percussion**

Prerequisite: permission of instructor. Applied instruction in percussion instruments. May be repeated for credit. 1-4 F,S

**MUS 458 Guitar**

Prerequisite: permission of instructor. Applied instruction in classical guitar. May be repeated for credit. 1-4 F,S

**MUS 459 Harp**

Prerequisite: permission of instructor. Applied instruction in harp. May be repeated for credit. 1-4 F,S

**MUS 460 Carillon**

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit. 1-4 F,S

**MUS 462 Collegiate Chorale**

Chorus studies masterpieces of choral literature through preparation and performance of selected compositions; Spring Concert is presented yearly. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 465 Chamber Singers**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 468 Concert Chorale**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 472 Small Ensemble**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 473 String Orchestra Workshop**

Prerequisite: permission of instructor. Study, performance of the literature and style of music for string ensembles of all sizes, a conducted group. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(1-1) F,S

**MUS 474 Jazz Ensemble**

Prerequisite: permission of instructor. Laboratory course in instrumentation, materials, arranging and organization of Jazz Ensemble. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 475 Band**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-4) F,S

**MUS 476 University Symphony**

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. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 478 University/Community Band**

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. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 480 Musical Theatre Workshop**

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. Only 8 hours of ensembles can be counted toward a degree. 2(0-4) F,S

**MUS 488 Seminar in Student Teaching**

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 Assessment, and Management Enhancement. Students attend (in person or on-line) weekly 2-hour seminars. 2(2-0) F,S

**MUS 492 Accompanying**

Prerequisite: permission of instructor. Development of skills in accompanying for pianist. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 493 Opera Workshop**

Preparation and production of opera as it pertains to singing actors and ensembles. Technical preparation, lighting, set design, set building. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree. 1(0-2) F,S

**MUS 494 Supervised Teaching (Elementary General Music)**

Prerequisite: all course work required for the Bachelor of Music Education completed, and combined GPA of 2.50; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Students will observe and then teach music classes under the direction 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5 F,S

**MUS 496 Supervised Teaching (Secondary Music)**

Prerequisite: 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 elementary settings. In order to receive a grade in this course, the student's professional portfolio

must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5 F,S

**MUS 498 Senior Recital**

Prerequisite: MUS 298 and at least three semesters Applied Music courses numbered 300 or above with grades of "B" or better in the major performance area or in composition. Preparation and public presentation of a solo recital in the student's major applied area. The student must pass a recital hearing before the performance can occur. Supplemental course fee. 2-4, F,S

**MUS 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**MUS 501 Music Education Workshop**

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. May be taught concurrently with MUS 611. Cannot receive credit for both MUS 611 and MUS 501. 1-3 S

**MUS 503 Orff in the Classroom**

A study of music education using the approach developed by Carl Orff. Will include creative techniques including instruments, singing and movement. May be taught concurrently with MUS 613. Cannot receive credit for both MUS 613 and MUS 503. 3(3-0) F

**MUS 504 The Methodology of Zoltan Kodaly**

The development of music literacy according to the sequential program of Zoltan Kodaly. May be taught concurrently with MUS 614. Cannot receive credit for both MUS 614 and MUS 504. 3(3-0) S

**MUS 506 Band Administration and Materials**

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. May be taught concurrently with MUS 606. Cannot receive credit for both MUS 606 and MUS 506. 1-3 FE

**MUS 510 Choral Literature and Materials for Secondary Levels**

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). May be taught concurrently with MUS 609. Cannot receive credit for both MUS 609 and MUS 510. 2(2-0) S

**MUS 512 Electronic Music**

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. May be taught concurrently with MUS 612. Cannot receive credit for both MUS 612 and MUS 512. 3(1-4) FO

**MUS 516 Composition I**

Prerequisite: permission of instructor. 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. May be repeated. May be taught concurrently with MUS 616. Cannot receive credit for both MUS 616 and MUS 516. 2-4 F,S

**MUS 517 Composition II**

Prerequisite: permission of instructor. Intermediate level composition. Emphasis on writing for small groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student. May be repeated. May be taught concurrently with MUS 617. Cannot receive credit for both MUS 617 and MUS 517. 2-4 F,S

**MUS 518 Choral Arranging**

Prerequisite: MUS 204. Techniques of arranging for small and large choral ensembles; with attention given to the practical application in a teaching situation. May be taught concurrently with MUS 618. Cannot receive credit for both MUS 618 and MUS 518. 2(2-0) F

**MUS 520 Composition III**

Prerequisite: permission of instructor. Composing for larger groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student. May be repeated. May be taught concurrently with MUS 619. Cannot receive credit for both MUS 619 and MUS 520. 2-4 F,S

**MUS 521 Composition IV**

Prerequisite: permission of instructor. 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. May be repeated. May be taught concurrently with MUS 621. Cannot receive credit for both MUS 621 and MUS 521. 2-4 F,S

**MUS 523 Keyboard Literature**

Recommended Prerequisite: MUS 345 and MUS 346. Keyboard works from the 17th century to the present. May be taught concurrently with MUS 623. Cannot receive credit for both MUS 623 and MUS 523. 2(2-0) F

**MUS 524 Song and Opera Literature**

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. May be taught concurrently with MUS 624. Cannot receive credit for both MUS 624 and MUS 524. 2(2-0) FE

**MUS 526 Advanced Arranging**

Prerequisite: MUS 204. 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. May be taught concurrently with MUS 626. Cannot receive credit for both MUS 626 and MUS 526. 3(1-4) D

**MUS 529 Introduction to Commercial Music**

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. May be taught concurrently with MUS 629. Cannot receive credit for both MUS 629 and MUS 529. 3(3-0) S

**MUS 530 Vocal Pedagogy and Materials**

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. May be taught concurrently with MUS 630. Cannot receive credit for both MUS 630 and MUS 530. 3(3-0) FO

**MUS 538 Survey of Pedagogical Methods**

A study of methods of teaching applied music. May be taught concurrently with MUS 658. Cannot receive credit for both MUS 658 and MUS 538. 2(2-0) D

**MUS 539 String Pedagogy and Instrumental Literature and Materials for Elementary and Secondary Levels**

Prerequisite: permission of instructor. 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. May be taught concurrently with MUS 659. Cannot receive credit for both MUS 659 and MUS 539. 3(3-0) S

**MUS 543 Music of the Renaissance**

Prerequisite: MUS 345 and MUS 346. A comprehensive study of Western music from the Franco-Netherlands composers to Monteverdi (c. 1450 to 1600). May be taught concurrently with MUS 683. Cannot receive credit for both MUS 683 and MUS 543. 3(3-0) SO

**MUS 544 Music of the Baroque Era**

Prerequisite: MUS 345 and MUS 346. A comprehensive study of Western music from monody to J.S. Bach and Handel (c. 1600 to 1750). May be taught concurrently with MUS 684. Cannot receive credit for both MUS 684 and MUS 544. 3(3-0) FO

**MUS 545 Music of the Classical Era**

Prerequisite: MUS 345 and MUS 346. A comprehensive study of Western music from pre-classicism to Beethoven (c. 1750 to 1810). May be taught concurrently with MUS 685. Cannot receive credit for both MUS 685 and MUS 545. 3(3-0) SE

**MUS 546 Music of the Romantic Era**

Prerequisite: MUS 345 and MUS 346. A comprehensive study of Western music from Beethoven to the post-romantic composers (c. 1800 to 1900). May be taught concurrently with MUS 686. Cannot receive credit for both MUS 686 and MUS 546. 3(3-0) FE

**MUS 547 Music of the 20th Century**

Prerequisite: MUS 345 and MUS 346. A comprehensive study of Western music from 1900 to the present. May be taught concurrently with MUS 687. Cannot receive credit for both MUS 687 and MUS 547. 3(3-0) FE

**MUS 548 Choral Literature**

Choral literature from the Renaissance through the 20th Century. May be taught concurrently with MUS 688. Cannot receive credit for both MUS 688 and MUS 548. 2(2-0) D

**MUS 580 Instrumental Conducting**

Prerequisite: MUS 323. A study of conducting techniques and problems in rehearsal and performance. Baton technique and repertoire development. May be taught concurrently with MUS 670. Cannot receive credit for both MUS 670 and MUS 580. 3(3-0) F,Su

**MUS 581 Choral Conducting**

Prerequisite: MUS 322. A study of conducting techniques and problems in rehearsal and performance. Conducting technique and repertoire development. May be taught concurrently with MUS 671. Cannot receive credit for both MUS 671 and MUS 581. 3(3-0) F,Su

**MUS 599 Special Topics in Music**

Prerequisite: permission of instructor. Topic of interest determined by student and professor. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. May be taught concurrently with MUS 689. Cannot receive credit for both MUS 689 and MUS 599. 1-3 D

**MUS 606 Band Administration and Materials**

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. May be taught concurrently with MUS 506. Cannot receive credit for both MUS 506 and MUS 606. 1-3 FE

**MUS 609 Choral Literature and Materials for Secondary Levels**

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 grade). May be taught concurrently with MUS 510. Cannot receive credit for both MUS 510 and MUS 609. 2(2-0) S

**MUS 611 Music Education Workshop**

Variable topics related to music education instruction. Number of credit hours determined by length of workshop and depth of topic. May be repeated for a maximum of five hours. May be taught concurrently with MUS 501. Cannot receive credit for both MUS 501 and MUS 611. 1-3 Su

**MUS 612 Electronic Music**

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. May be taught concurrently with MUS 512. Cannot receive credit for both MUS 512 and MUS 612. 3(1-4) FO

**MUS 613 Orff in the Classroom**

A study of music education using the approach developed by Carl Orff. Will include creative techniques including instruments, singing, and movement. May be taught concurrently with MUS 503. Cannot receive credit for both MUS 503 and MUS 613. 3(3-0) F

**MUS 614 The Methodology of Zoltan Kodaly**

The development of music literacy according to the sequential program of Zoltan Kodaly. May be taught concurrently with MUS 504. Cannot receive credit for both MUS 504 and MUS 614. 3(3-0) S

**MUS 616 Composition I**

Prerequisite: permission of instructor. 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. May be taught concurrently with MUS 516. Cannot receive credit for both MUS 516 and MUS 616. 2-4 F,S

**MUS 617 Composition II**

Prerequisite: permission of instructor. Intermediate level composition. Emphasis on writing for small groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student. May be taught concurrently with MUS 517. Cannot receive credit for both MUS 517 and MUS 617. 2-4 F,S

**MUS 618 Choral Arranging**

Techniques of arranging for small and large choral ensembles; with attention given to the practical application in a teaching situation. May be taught concurrently with MUS 518. Cannot receive credit for both MUS 518 and MUS 618. 2(2-0) F

**MUS 619 Composition III**

Prerequisite: permission of instructor. Composing for larger groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student. May be repeated. May be taught concurrently with MUS 520. Cannot receive credit for both MUS 520 and MUS 619. 2-4, F,S

**MUS 621 Composition IV**

Prerequisite: permission of instructor. 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. May be repeated. May be taught concurrently with MUS 521. Cannot receive credit for both MUS 521 and MUS 621. 2-4, F,S

**MUS 623 Keyboard Literature**

Keyboard works from the 17th century to the present. May be taught concurrently with MUS 523. Cannot receive credit for both MUS 523 and MUS 623. 2(2-0), F

**MUS 624 Song and Opera Literature**

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. May be taught concurrently with MUS 524. Cannot receive credit for both MUS 524 and MUS 624. 2(2-0), FE

**MUS 626 Advanced Arranging**

Prerequisite: permission of instructor. 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. May be taught concurrently with MUS 526. Cannot receive credit for both MUS 526 and MUS 626. 3(1-4), D

**MUS 629 Introduction to Commercial Music**

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. May be taught concurrently with MUS 529. Cannot receive credit for both MUS 529 and MUS 629. 3(3-0), S

**MUS 630 Vocal Pedagogy and Materials**

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. May be taught concurrently with MUS 530. Cannot receive credit for both MUS 530 and MUS 630. 3(3-0), FO

**MUS 635 Advanced Woodwind Techniques**



Special problems and techniques in the teaching of woodwind instruments. Current materials are surveyed. 2(1-2), D

**MUS 636 Advanced Brass Techniques**

Special problems and techniques in the teaching of brass instruments. Current materials are surveyed. 2(1-2), D

**MUS 637 Advanced Percussion Techniques**

Special problems and techniques in the teaching of percussion instruments. Current materials are surveyed. 2(1-2), D

**MUS 649 String (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, and bass viol. May be repeated for credit. 1-2, F,S

**MUS 651 Piano**

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit. 1-2, F,S

**MUS 652 Organ**

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit. 1-2, F,S

**MUS 653 Voice**

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit. 1-2, F,S

**MUS 655 Woodwind**

Prerequisite: permission of instructor. Applied instruction in flute, oboe, clarinet, bassoon, and saxophone. May be repeated for credit. 1-2, F,S

**MUS 656 Brass**

Prerequisite: permission of instructor. Applied instruction in trumpet, horn, trombone, euphonium and tuba. May be repeated for credit. 1-2, F,S

**MUS 657 Percussion**

Prerequisite: permission of instructor. Applied instruction on percussion instruments. May be repeated for credit. 1-2, F,S

**MUS 658 Survey of Pedagogical Methods**

A study of methods of teaching applied music. May be taught concurrently with MUS 538. Cannot receive credit for both MUS 538 and MUS 658. 2(2-0), D

**MUS 659 String Pedagogy and Instrumental Literature and Materials for Elementary and Secondary Levels**

Prerequisite: permission of instructor. 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. May be taught concurrently with MUS 539. Cannot receive credit for both MUS 539 and MUS 659. 3(3-0), S

**MUS 660 Carillon**

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit. 1-2, F,S

**MUS 670 Instrumental Conducting**

A study of conducting techniques and problems in rehearsal and performance. Baton technique and repertoire development. May be taught concurrently with MUS 580. Cannot receive credit for both MUS 580 and MUS 670. 3(3-0), F,Su

**MUS 671 Choral Conducting**

A study of conducting techniques and problems in rehearsal and performance. Conducting technique and repertoire development. May be taught concurrently with MUS 581. Cannot receive credit for both MUS 581 and MUS 671. 3(3-0), F,Su

**MUS 674 Jazz Ensemble**

A Laboratory course in instrumentation, materials, arranging, and organization of the jazz ensemble. May be repeated for credit. 1(0-2), F,S

**MUS 675 Band**

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. 1(0-2), F,S

**MUS 678 University/Community Band**

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. 1(0-2), F,S

**MUS 682 Piano Ensemble**

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. 1(0-2), F,S

**MUS 683 Music of the Renaissance**

A comprehensive study of Western music from the Franco-Netherlands composers to Monteverdi (c. 1450 to 1600). May be taught concurrently with MUS 543. Cannot receive credit for both MUS 543 and MUS 683. 3(3-0), SO

**MUS 684 Music of the Baroque Era**



A comprehensive study of Western music from monody to J.S. Bach and Handel (c. 1600 to 1750). May be taught concurrently with MUS 544. Cannot receive credit for both MUS 544 and MUS 684. 3(3-0), FO

**MUS 685 Music of the Classical Era**

A comprehensive study of Western music from pre-classicism to Beethoven (c. 1750 to 1810). May be taught concurrently with MUS 545. Cannot receive credit for both MUS 545 and MUS 685. 3(3-0), SE

**MUS 686 Music of the Romantic Era**

A comprehensive study of Western music from Beethoven to the post-romantic composers (c. 1800 to 1900). May be taught concurrently with MUS 546. Cannot receive credit for both MUS 546 and MUS 686. 3(3-0), FE

**MUS 687 Music of the 20th Century**

A comprehensive study of Western music from 1900 to the present. May be taught concurrently with MUS 547. Cannot receive credit for both MUS 547 and MUS 687. 3(3-0), FE

**MUS 688 Choral Literature**

Choral literature from the Renaissance through the 20th Century. May be taught concurrently with MUS 548. Cannot receive credit for both MUS 548 and MUS 688. 2(2-0), D

**MUS 689 Special Topics in Music**

Prerequisite: permission of instructor. Topic of interest determined by student and professor. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. May be taught concurrently with MUS 599. Cannot receive credit for both MUS 599 and MUS 689. 1-3, D

**MUS 700 Introduction to Graduate Study in Music**

General introduction to graduate curriculum; planning the program; formal writing style; sources used in research; study of methods in research. Required of all degree candidates. 3(3-0) F,S

**MUS 701 Music Education Curriculum**

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. 3(3-0) D

**MUS 702 Elementary Music Education**

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. 3(3-0) Su

**MUS 703 Middle School/Junior High Vocal Material**

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. 3(3-0) Su

**MUS 704 Music Literature for Children: Performing and Listening**

Survey of appropriate literature for choral organizations at the elementary level and materials appropriate for developing listening skills. 3(3-0) D

**MUS 705 Instrumental Music in the Elementary, Middle and Secondary Schools**

Organization of beginning instrumental program; articulation of instrumental instruction in elementary, middle school/ junior high, and senior high school. 2(2-0) Su

**MUS 707 Psychology of Music**

Adapted to the view of the music educator. Emphasis is placed upon the physics of sound, psychology of performances and teaching, and the principles of listening. 3(3-0) D

**MUS 708 Contemporary Music Education**

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. 3(3-0)D

**MUS 710 Secondary General Music**

A survey of general music at the high school level with emphasis on developing programs to meet specific educational settings. 3(3-0) D

**MUS 715 Advanced Composition**

Prerequisite: permission of instructor. Private compositional study for graduate students. Variable content course. May be repeated to a total of 9 hours when topic varies. 3(3-0) D

**MUS 720 Directed Study in Music Education**

Prerequisites: 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 3 hrs. 1-3 F,S

**MUS 725 History and Philosophy of Music Education**

History of educational philosophies and objectives. 3(3-0) D

**MUS 727 Seminar: Music Theory**

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. May be repeated to a total of 6 hours when topic varies. 3(3-0) FE

**MUS 728 Pedagogy of Music Theory**

Techniques of teaching harmony and ear training as well as other theoretical aspects of music to high school and college music students. 3(3-0) Su

**MUS 738 Survey of Pre-College Repertoire**

Prerequisite: MUS 538 or MUS 658. An examination of appropriate repertoire from the Baroque, Classical, Romantic, and 20th Century style periods for beginner, intermediate, and advanced pre-college students. 2(2-0) S, Su

**MUS 739 Pedagogy Practicum I**

Prerequisite: MUS 738. A course consisting of three components: class meetings for the discussion of teaching techniques, observation of the teaching of experienced teachers, supervised student teaching. 3(2-2) F

**MUS 740 Pedagogy Practicum II**

Prerequisite: MUS 739. 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. 3(0-6) S

**MUS 744 Directed Study in Music Theory**

Prerequisite: permission of instructor. Individual study on approved projects; individual conferences with assigned faculty member. May be repeated to a total of 3 hours. 1-3 F,S

**MUS 745 Directed Study in Music History and Literature**

Prerequisite: permission of instructor. 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. 1-3 D

**MUS 746 Seminar: Symphonic Literature**

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. 3(3-0), D

**MUS 747 Seminar: Wind Literature**

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. 3(3-0), D

**MUS 748 Seminar: Choral Literature**

A survey of the repertoire for choral groups of various sizes and ability levels. Variable content course. May be repeated to a total of 6 hours when topic varies. 3(3-0) D

**MUS 749 String (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in violin, viola, violoncello, and bass viola. May be repeated for credit. 1-2 F,S

**MUS 751 Piano**

Prerequisite: permission of instructor. Applied instruction in piano. May be repeated for credit. 1-2 F,S

**MUS 752 Organ**

Prerequisite: permission of instructor. Applied instruction in organ. May be repeated for credit. 1-2 F,S

**MUS 753 Voice**

Prerequisite: permission of instructor. Applied instruction in voice. May be repeated for credit. 1-2 F,S

**MUS 755 Woodwind (Instrument)**

Prerequisite: permission of instructor. Applied instruction available in flute, oboe, clarinet, bassoon, and saxophone. May be repeated for credit. 1-2 F,S

**MUS 756 Brass**

Prerequisite: permission of instructor. Applied instruction available in trumpet, French horn, trombone, euphonium and tuba. May be repeated for credit. 1-2 F,S

**MUS 757 Percussion**

Prerequisite: permission of instructor. Applied instruction on percussion instruments. May be repeated for credit. 1-2 F,S

**MUS 760 Carillon**

Prerequisite: permission of instructor. Applied instruction in carillon. May be repeated for credit. 1-2 F,S

**MUS 762 Collegiate Chorale**

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. 1(0-2) F,S

**MUS 765 Chamber Singers**

Repertoire consists of vocal chamber music in polyphonic style, masses, motets, madrigals, chanson, and polyphonic lieder, from the 13th and 17th Centuries. Formal concerts and public performances are given by the ensemble each year. May be repeated for credit. 1(0-2) F,S

**MUS 767 Lyric Singers**

The membership is open by audition. 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. 1(0-2) F,S

**MUS 768 Concert Chorale**

The choir is open to all college students by audition. 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 in area high schools. May be repeated for credit. 1(0-4) F,S

**MUS 769 Missouri State Singers**

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. 1(0-2) F,S

**MUS 772 Small Ensembles**

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. 1(0-2) F,S

**MUS 773 String Orchestra Workshop**

Study and performance of the literature and style of music for string ensembles of all sizes, A conducted group. May be repeated for credit. 1(0-2) F,S

**MUS 774 Stage Band**

A laboratory course in instrumentation, materials, arranging, and organization of the stage band. May be repeated for credit. 1(0-2) F,S

**MUS 775 Band**

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. 1(0-4), F,S

**MUS 776 University Symphony**

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. 1(0-4), F,S

**MUS 778 University/Community Band**

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. 1(0-2), F,S

**MUS 780 Practicum in Advanced Conducting**

Prerequisite: 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. 3(2-2) D

**MUS 781 Score Reading and Analysis**

Analysis of scores and its application to conducting. Development of skills in reading clefs and transpositions. Variable content course. May be repeated to a total of 6 hours when topic varies. 3 (3-0) D

**MUS 790 Research Project**

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. 2(2-0) D

**MUS 792 Accompanying**

Prerequisite: permission of instructor. Development of skills in accompanying for pianists. 1(0-2) F,S

**MUS 797 Directed Study in Pedagogy**

Advanced study in special topics in pedagogy. Variable content course. May be repeated to a total of 3 hours when topic varies. 1-3 D

**MUS 798 Graduate Recital**

Fulfills half of the final project requirement for concentrations in performance, pedagogy, and conducting. 2(0-4) F,S

**MUS 799 Thesis**

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. 1-6 F,S

Office of the Registrar  
2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Arts and Letters > Department of Theatre and Dance

## Department of Theatre and Dance

Craig Hall, Room 355, Phone: (417) 836-4400, Fax: (417) 836-4234  
Email: [TheatreandDance@missouristate.edu](mailto:TheatreandDance@missouristate.edu)  
Website: <http://theatreanddance.missouristate.edu>  
Department Head: Professor Robert H. Willenbrink, Ph.D.

### Faculty (as of July 15, 2011)

**Professor:** Cynthia Winstead, M.F.A.

**Associate Professors:** Ruth Barnes, M.F.A.; Sara Brummel, M.F.A.; Kurt Heinlein, Ph.D.; Christopher J. Herr, Ph.D.; Robert Little, M.F.A.; Carol J. Maples, Ed.D.; Mark Putman, M.F.A.

**Assistant Professors:** Darryl Clark, M.F.A.; Telory W. Davies, Ph.D.; Micheal Foster, M.F.A.; Louise M. Herman, M.F.A.; Stacy J. Joyce, M.F.A.; Maggie Marlin, M.F.A.; Sarah Wiggan, M.F.A.

**Managing Director:** Mark Templeton, M.A.

**Technical Director:** Christopher DePriest, M.F.A.

**Scene Shop Manager:** Anna Hunt, B.S.Ed.

**Costume Shop Manager:** Brad Ferguson, B.F.A.

**Musical Theatre Musician:** Heather Luellen, B.M.

**Emeritus Professors:** Byrne D. Blackwood, Ph.D.; Robert H. Bradley, Ph.D.; Kathrine Brown, M.F.A.; Sharon Ellis, M.A.; Rhythm McCarthy, M.F.A.; Alice McElhaney, M.A.; John McElhaney, Ph.D.; F. Ruth McKenney, M.A.; Chyrel Miller, M.A.

**Emeritus Staff:** Ray Castrey, B.M.; Gloria Reed

### Accreditation

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.

### Fine Arts Courses

Fine Arts courses are available. Refer to the Bachelor of Arts degree requirements in the specific [Degrees, Programs and Requirements](#) section of the catalog for a listing of the courses.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

**General Education Restriction:** Students seeking a Bachelor of Fine Arts degree within the Theatre and Dance department may not use courses toward both the major requirements and the general education requirements.

**Bachelor of Arts Fine Arts Restriction:** Students seeking a Bachelor of Arts degree in Theatre Studies may not use courses toward both the major and the Fine Arts requirement.

### Graduate Programs

The following graduate programs are available:

Theatre (Master of Arts); and Secondary Education with an option in Speech and Theatre (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Arts degree in Theatre

Eligible Missouri State undergraduate theatre majors may apply for preliminary acceptance into the Master of Arts in Theatre program after admission requirements for the accelerated master's option are met. If a student is accepted, the undergraduate requirements of up to six (6) hours of 600-level theatre courses may be counted towards both the undergraduate and graduate degrees (Mixed Credit). These courses will be, except in rare circumstances, limited to THE 631 (3 hrs) and THE 632 (3 hrs). This option allows student with exceptional academic achievements to complete the coursework for both a bachelor's and a master's degree in ten semesters with additional time as needed for the completion of the research requirement. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## General Information

### Student Activities

#### 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.

#### 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, 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.

## Majors

### 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 Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (83 hours)
  - 1. Acting (14 hours): THE 121(3), 221(3), 321(3), 421(3), 451(2)
  - 2. Applied Voice (11 hours): MUS 298(0), 498(2-4); and from MUS 153, 253, 353, and 453(1-2)
  - 3. Stage Voice and Movement (9 hours): THE 122(3), 226(2), 328(3), 424(1)
  - 4. History/analysis (9 hours): THE 130(3); MUS 343(3), 344(3)
  - 5. Technology (10 hours): THE 150(2), 151(1), 224(1), and select 6 hours from: THE 250(2) and 251(1); THE 255(2) and 256(1); THE 260(2) and 261(1)
  - 6. Musicianship (4 hours): MUS 103(3), 137(1)
  - 7. Dance (12 hours): select from (by placement) DAN 117(2), 131(2), 216(3), 225(1), 230(3), 245(3), 325(1), 345(3)
  - 8. Musical Theatre Practicum (8 hours) select from: MUS 193(1), 280(2), 380(2), 480(2); THE 495(1)
  - 9. Electives (6 hours): choose from Theatre, Music, or Dance courses with approval of advisor
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Speech and Theatre Education

Bachelor of Science in Education  
(Certifiable grades 9-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: COM 115(3); MED 120(3)
- B. Major Requirements (54 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 322(3), 532(3), 534(3), 536(2); THE 123(3), 130(3), 150(2), 151(1), 310(3), 430(3); MED 120(3)
  - 2. **Theatre Option:** THE 122(3), 224(1), 250(2), 251(1), 255(2), 256(1), 260(2), 261(1), 530(3), 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 the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 and Dance

### Bachelor of Fine Arts

**Admission Requirements:** In addition to the University's admission requirements, students must be officially accepted into the BFA program prior to the first semester of coursework in the major. Auditions and/or interviews for placement in the program are held on campus during the fall and spring semester of each year. Prospective students should contact the Department of Theatre and Dance for specific information about the audition process and dates.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Note: Six hours of the General Education Humanities Requirement may not be included in the courses fulfilling the major.
- B. Major Requirements (78 hours)
  - 1. Core Requirements (31 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 (6 hours): THE 130(3); and THE 430(3) or approved DAN course (3)
    - c. History (6 hours): THE 541(3); and THE 542(3) or DAN 452(3)
    - d. Acting (3 hours): THE 121(3)\* or 123(3). \*THE 121 is open to admitted BFA in Theatre and Dance/Acting and Musical Theatre majors only.
    - e. Electives from approved courses inside or outside the department (5 hours). 2-3 hours of Dance courses suggested.
    - f. Senior BFA Project: THE 492(1) or DAN 492(1)
  - 2. Complete one of the following options:
    - a. **Acting** (47 hours):
      - 1. THE 122(3), 221(3), 226(2), 228(2), 321(3), 326(3), 327(3), 328(3), 421(3), 424(1), 451(2), 498(2), 511(3), 522(3)
      - 2. 3 hours from the following: THE 505(3), 510(3), 515(3), 530(3)
      - 3. 3 hours from the following: THE 543(3), 545(3), 547(3); or approved literature course(s) numbered 300 or above
      - 4. 5 hours from approved performance related electives from Dance, Music, or Theatre courses
      - 5. Each candidate will meet with the Acting faculty at the end of each spring semester to assess individual progress, strengths, and goals.
    - b. **Dance** (47 hours)
      - 1. Dance Technique (33 hours):
        - a. No fewer than 12 hours in: DAN 216(3), 316(3), 416(3)
        - b. No fewer than 12 hours in: DAN 230(3), 330(3), 430(3)
        - c. No fewer than 9 hours in: DAN 245(3), 345(3), 445(3)
      - 2. Composition/Choreography (4 hours): DAN 320(2), 420(3)
      - 3. Partnering (2 hours): DAN 348(2)
      - 4. Performance Practicum: DAN 592(1)
      - 5. Anatomy and Kinesiology (3 hours): DAN 364(3)
      - 6. Pedagogy (4 hours): DAN 565(4)

It is strongly recommended that all Dance majors take DAN 180 and one course from the following: MUS 239, MUS 345 or MUS 346. These courses fulfill General Education Program requirements.
    - c. **Design/Technology/Stage Management** (47 hours):
      - 1. Design/Technology Core course sequence not selected above from: THE 250(2) and 251(1); THE 255(2) and 256(1); or THE 260(2) and 261(1)
      - 2. THE 270(3), 271(3), 275(3), 280(3), 281(3), 292(1), 295(1), 354(3), 380(3), 381(3), 382(3), 392(1), 395(1), 495(1), 561(3), 562(3)
      - 3. 6 hours from the following: THE 324(1), 350(3), 454(3), 460(3), 530(3), 552(3), 555(3), 558(3), 565(3); COM

205(3) or 332(3)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Theatre Studies

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major requirements (41-42 hours)

1. Theatre Reading and Writing (6 hours): THE 130(3), 210(3)
2. Acting and Directing (9 hours): THE 122(3), 123(3), 430(3)
3. Theatre History (6 hours): THE 541(3), 542(3)
4. Design/Technology/Stage Management (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. Performance Theory and Practice (3 hours): THE 310(3)
6. Public Affairs Intensive Experience (3 hours): THE 515(3)
7. Elective (8-9 hours): choose from the following recommended focus areas or from other advisor approved DAN and THE courses.  
Performance Focus: THE 505(3), 506(3), 510(3), 515(3)  
Dance Focus: DAN 117(2), 219(2), 320(2), 420(2), 452(3)  
History and Theory Focus: THE 543(3), 545(3), 547(3)  
NOTE: Courses counted for the major may **not** also be counted for the Bachelor of Arts Fine Arts requirement.

C. Minor Required (or second major)

D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Dance

Bachelor of Arts

Bachelor of Science

- A. 9 hours from: DAN 316(3), 416(3), 330(3), 430(3), 345(3), 445(3)
- B. DAN 180(3)
- C. 6 hours of electives from: DAN 320(2), 348(2), 364(2), 420(3), 499(1), 520(3), 552(3), 565(4), 591(1) to bring total hours in minor to 18.

### Theatre

Bachelor of Arts

Bachelor of Science

- A. THE 130(3), 150(2), 151(1)
- B. One course from: THE 541(3), 542(3), 543(3), 545(3), 547(3)
- C. 9 hours of Theatre electives of which 3 hours must be chosen from courses numbered 300 or above for a total of 18 hours

## Dance Courses

### DAN 117 Modern Dance I-B

Prerequisite: 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. Variable content course. May be repeated to a maximum of 4 hours. 2(0-4) F,S

### DAN 125 Tap Dance I

Basic elements of tap dance, stylized steps and terminology coordinated with the rhythmic structure of tap dance. 2(0-4) F,S

### DAN 130 Dance Fundamentals I

First course in the fundamentals of classical ballet and modern dance techniques, with an emphasis on alignment and basic movement vocabulary. Designed for students with little or no experience. First course in a two-semester module. Variable content course. May be repeated to a maximum of 6 hours. 2(0-4) F

### DAN 131 Dance Fundamentals II

Prerequisite: DAN 130. Second course in the fundamentals of classical ballet and modern dance techniques, with an emphasis on alignment and basic movement vocabulary. Designed for students with little or no dance experience. Variable content course. May be repeated for a maximum of 6 hours. 2(0-4) S

### DAN 146 Jazz Dance I-B

Prerequisite: permission of instructor. Continues development of the basic fundamentals of jazz dance technique and vocabulary. Designed for students with at least one year of formal dance training. May be repeated to a total of 4 hours. 2(0-4) F,S

### DAN 180 Introduction to the Dance

General Education Course (Self-Understanding/Creativity and Vision Perspective). Survey of dance from a historical retrospective through the creative process. Emphasis will be placed on historical 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. 3(3-0) F,S

**DAN 216 Elementary Modern Dance**

Prerequisite: permission of instructor. Explores elements of modern dance technique. Designed for students with at least one year of formal dance training. Variable content course. May be repeated to a total of 12 hours. 3(1-4) F,S

**DAN 225 Tap Dance II**

Prerequisite: permission of instructor. Elementary tap dance technique and vocabulary. Variable content course. May be repeated to a total of 6 hours. 2(0-4) F

**DAN 230 Elementary Ballet**

Prerequisite: permission of instructor. Elementary classical ballet technique and vocabulary. This course is designed for students with at least one to two years of formal and consistent ballet training. Variable content course. May be repeated to a total of 12 hours. 3(1-4) F,S

**DAN 235 Mens Dance Technique I**

Prerequisite: DAN 216 and DAN 230. Basic techniques for the male dancer. Emphasis will be on strength building and developing the male dancer's technique and style. Variable content course. May be repeated to a total of 4 hours. 2(0-4) D

**DAN 245 Elementary Jazz Dance**

Prerequisite: permission of instructor. Continues development of jazz dance technique and vocabulary. Elementary level technique designed for students with at least one year of formal dance training. Variable content course. May be repeated to a total of 12 hours. 3(1-4) F,S

**DAN 316 Intermediate Modern Dance**

Prerequisite: permission of instructor. Intermediate level modern dance technique. Variable content course. May be repeated to a total of 12 hours. 3(1-4) D

**DAN 319 Contact Improvisation**

Prerequisite: permission of instructor. 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. 2(0-4) D

**DAN 320 Dance Composition I: Improvisation and Solo Forms**

Prerequisite: DAN 216. Contemporary dance improvisation techniques, and creative approaches to development of basic movement themes and simple and complex manipulations of those themes. The first course in the Dance Composition Series. 2(0-4) F

**DAN 323 Musical Theatre Styles**

Prerequisite: permission of instructor. Students will continue to refine performance techniques as related to historical trends in choreography and staging for American Musical Theatre. A minimum of three production numbers featuring either original Broadway choreography or choreography devised by the instructor will be taught and performed during the semester. Students will also have the opportunity to sing or act, or both, as is appropriate to the numbers that are mastered. 2(0-4) D

**DAN 325 Tap Dance III**

Prerequisite: permission of instructor. Continues development of intermediate level tap dance technique and vocabulary. Variable content course. May be repeated to a total of 3 hours. 1(0-2) S

**DAN 330 Intermediate Ballet**

Prerequisite: permission of instructor. Intermediate level ballet technique. Variable content course. May be repeated to a total of 12 hours. 3(1-4) D

**DAN 335 Mens Dance Technique II**

Prerequisite: DAN 235. Continued techniques for the male dancer. Emphasis will be on strength building and developing the male dancer's technique and style. Variable content course. May be repeated to a total of 4 hours. 2(0-4) D

**DAN 345 Intermediate Jazz Dance**

Prerequisite: permission of instructor. Intermediate level jazz dance techniques. Variable content course. May be repeated to a total of 12 hours. 3(1-4) D

**DAN 348 Partnering**

Prerequisite: permission of instructor. Basic and elementary techniques of classical and contemporary partnering. Variable content course. May be repeated to a total of 4 hours. 2(0-4) SE

**DAN 364 Applied Kinesiology for the Dancer**

Prerequisite: PED 250. The specific study of dance techniques through the principles of motion, muscle action and joint mechanics. 3(3-0) FO

**DAN 390 Service Learning in Dance**

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. 1 S

**DAN 416 Advanced Modern Dance**

Prerequisite: permission of instructor. Advanced level modern dance technique. Variable content course. May be repeated to a total of 12 hours. 3(1-4) S

**DAN 420 Dance Composition II: Small Group Forms**

Prerequisite: DAN 320. Choreographic techniques that explore creative approaches to the development and manipulation of movement themes. Emphasis on small group studies that explore space, time and energy. 2(0-4) S

**DAN 430 Advanced Ballet**

Prerequisite: permission of instructor. Advanced level ballet technique. Variable content course. May be repeated to a total of 12 hours. 3(1-4) S

**DAN 445 Advanced Jazz Dance**

Prerequisite: permission of instructor. Advanced level jazz dance techniques. Variable content course. May be repeated to a total of 12 hours. 3(1-4) D

**DAN 452 History of Dance II**

Prerequisite: 60 hours. Overview of the history of dance from the 17th century to the present. The primary focus will be on the development of modern/contemporary dance. 3(3-0) SE

**DAN 492 Senior BFA Review**

Prerequisite: permission of BFA coordinator. Public presentation of portfolio, project, or performance to demonstrate the student's mastery of the skills developed during the major. Required of all BFA Dance majors. 1(0-2) F,S

**DAN 496 Readings**

Prerequisite: permission of dance area coordinator. Individual experimental or research studies in dance. May be repeated to a total of 6 hours. 1-3 F,S

**DAN 497 Topics**

Prerequisite: permission of instructor or course supervisor. Group creative or special topics in dance. May be repeated to a total of 6 hours. 1-3 F,S

**DAN 499 Projects**

Prerequisite: permission of dance area coordinator. Supervised individual creative projects in dance. May be repeated to a total of 6 hours. 1-3 F,S

**DAN 530 Pointe**

Prerequisite: permission of instructor. Pointe technique that focuses on stability, correct alignment of the feet and use of turn-out. At least one classical variation will be taught. 1(0-2) D

**DAN 565 Dance Pedagogy**

Prerequisite: 45 hours and DAN 316 and DAN 330 and DAN 345. Overview of general theories and practices of teaching. This course investigates class content and various methodologies used to teach dance techniques and creative movement. Emphasis is placed on methods for teaching the beginning and elementary level student. Opportunities to develop and implement lesson plans, and to develop comprehensive training syllabi. 4(2-4) FE

**DAN 592 Performance**

Prerequisite: permission of instructor. Performance laboratory for students in Dance. Focused study of dance repertory from a variety of genres. Emphasis will be placed on performance techniques as related to various styles. Variable content course. May be repeated to a total of 4 hours. 1(0-2) D

## Theatre Courses

**THE 101 Introduction to Theatre and Drama Arts**

General Education Course (Self-Understanding/Creativity and Vision Perspective). 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. 3(3-0) F,S

**THE 109 Performance Studies**

General Education Course (Self-Understanding/Creativity and Vision Perspective). 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. 3(3-0) F,S

**THE 121 Acting Studio I**

Prerequisite: permission of instructor; and concurrent enrollment in THE 122; and open only to BFA Acting and Musical Theatre majors admitted through the audition process. Discovery and development of the actor's expressive behavior through improvisation. 3(1-4) F

**THE 122 The Tools of the Actor: Introduction to Voice and Movement**

An introduction to the fundamental tools of the actor: physical awareness, vocal awareness, and ensemble collaboration. 3(2-2) F

**THE 123 Acting Fundamentals**

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. 3(2-2) F,S

**THE 125 Voice and Movement for the Stage**

Exercises in physical and vocal awareness for the actor. Introductory material on anatomy, breathing, and articulation; care and maintenance of body and voice. 2(0-4) D

**THE 130 Introduction to Script Analysis**

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. 3(3-0) F,S

**THE 150 Introduction to Theatre Technology**

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. 2(2-0) F,S

**THE 151 Introduction to Theatre Technology Lab**

Prerequisite: THE 150 or concurrent enrollment. Practical application of the principles addressed in THE 150. 1(0-2) F,S

**THE 195 Theatre Laboratory**

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. 1(0-2) F,S

**THE 205 Speech for the Elementary Classroom**

Speech activities in the elementary grades, correlating storytelling, choral reading, creative dramatics and speech correction. 3(3-0) F,S

**THE 210 Writing II: Writing for Theatre**

Prerequisite: ENG 110 or equivalent and 30 hours. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

**THE 221 Acting Studio II**

Prerequisite: THE 121. Emphasis on finding truth in performance through various acting techniques and physicalization of text. Application of play analysis to character study. 3(1-4) S

**THE 224 Stage Makeup I**

Laboratory course providing students with fundamentals of the art of two dimensional makeup. 1(0-2) F,S

**THE 226 Intermediate Voice and Movement**

Prerequisite: THE 122 and permission of instructor. Development of dynamic physical and vocal expression of text. Exercises in breaking habitual physical and vocal patterns which inhibit emotional expression. 2(0-4) S

**THE 228 Singing for the Actor**

Prerequisite: permission of instructor; BFA Theatre/Acting option majors only; not open to Musical Theatre majors. Basic singing and music-reading techniques for actors, with approaches for building a singing repertoire. 2(1-2) F

**THE 250 Stagecraft and Construction I**

Prerequisite: THE 150. Working illustrations, construction, rigging, painting, and shifting of scenic units. 2(2-0) F,S

**THE 251 Stagecraft and Construction Lab**

Prerequisite: concurrent enrollment in THE 250. Practical application of the principles addressed in THE 250. 1(0-2) F,S

**THE 255 Lighting Design I**

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. 2(2-0) F,S

**THE 256 Lighting Lab**

Prerequisite: concurrent enrollment in THE 255. Practical application of the principles addressed in THE 255. 1(0-2) F,S

**THE 260 Costume Construction I**

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. 2(2-0) F,S

**THE 261 Costume Construction Lab**

Prerequisite: THE 260 or concurrent enrollment. Practical application of the principles addressed in THE 260. 1(0-2) F,S

**THE 270 Drawing and Rendering for Theatre I**

A survey of drawing and the use of various media as applicable to theatrical design. Includes figure and perspective drawing techniques. 3(3-0) F

**THE 271 Drawing and Rendering for Theatre II**

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. 3(3-0) S

**THE 275 Drafting for the Stage**

Prerequisite: THE 150. Basic drafting techniques and practices for theatrical applications. Study of tools, methods, and formulas used in generating designs and drawings. 3(2-2) F

**THE 280 Design Seminar Design Principles**

Prerequisite: THE 150. Basic principles of design as these relate to the theatre, intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required. 3(3-0) F,S

**THE 281 Design Seminar-Lighting and Scenic Design Principles**

Prerequisite: THE 150; and THE 270 or THE 271. Basic principles of lighting and scenic design as these relate to the theatre. Intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required. 3(3-0) F,S

**THE 292 BFA Review**

Prerequisite: permission of area coordinator. Public presentation of a portfolio, a project, or a performance demonstrating the student's mastery of the skills received during the major. 1(0-2) F,S

**THE 295 Production/Design/Stage Management Project**

Prerequisite: permission of area coordinator. Technical or design or stage management assignment requiring an intermediate level of expertise and responsibility connected with a specific departmental production. 1(0-2) F,S

**THE 306 Interrelated and Integrated Arts**

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. Cannot receive credit for both THE 306 and MUS 306. 3(1-4) D

**THE 310 Performing Literature**

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. 3(3-0) F,S

**THE 321 Acting Studio III**

Prerequisite: THE 221. Projects in advanced characterization. May be repeated up to 6 hours. 3(1-4) F

**THE 324 Stage Makeup II**

Prerequisite: THE 224. Laboratory course dealing with three-dimensional makeup. Emphasis on prosthetics of latex. 1(0-2) D

**THE 326 Advanced Voice for the Actor**

Prerequisite: THE 226. Introduction to scansion and its application to performing classical material. Techniques for vocal stamina. 3(1-4) F

**THE 327 Advanced Movement for the Actor**

Prerequisite: THE 226. 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. 3(1-4) S

**THE 328 Stage Combat**

Prerequisite: THE 226. 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. 3(2-2) FO,S

**THE 350 Stagecraft and Construction II**

Prerequisite: THE 250 and THE 275. Study of advanced building techniques. Work with "non-conventional" materials. Explore uses of mechanical stage machinery. Plan and budget productions. 3(2-2) SO

**THE 354 Stage Management**

Prerequisite: THE 150. 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 theatre. 3(3-0) F

**THE 380 Design Seminar-Costume and Sound Design Principles**

Prerequisite: THE 150. Basic principles of costume and sound design as these relate to the theatre. Intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required. 3(3-0) F,S

**THE 381 Design Seminar-Collaborative Design Process**

Prerequisite: THE 280 and THE 281 and THE 380. Collaboration as it relates to all areas of theatrical design. Intensive laboratory experience in theatrical design. Buying tickets to and attendance at local performances required. 3(3-0) F,S

**THE 382 Research and Concept Development**

Research and dramaturgy as these apply to previsualization, design, production, and concept development for the theatre and the performing arts. 3(3-0) FO

**THE 390 Service Learning in Theatre**

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. 1 F,S

**THE 392 BFA Review**

Prerequisite: permission of area coordinator. Public presentation of a portfolio, a project, or a performance demonstrating the student's mastery of the skills received during the major. 1(0-2) F,S

**THE 395 Production/Design/Stage Management Project**

Prerequisite: permission of area coordinator. Technical or design or stage management assignment requiring an advanced level of expertise and responsibility connected with a specific departmental production. 1(0-2) F,S

**THE 412 Structures and Styles in Classical Drama**

Prerequisite: 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. 2(0-4) D

**THE 417 Teaching of Speech and Theatre**

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 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 THE 490 or THE 491. May not be taken Pass/Not Pass. Identical with COM 417. Cannot receive credit for both THE 417 and COM 417. 3(3-0) F

**THE 421 Acting Studio IV**

Prerequisite: THE 321. Advanced techniques and tutorial scene work from classic theatre literature of the late 19th and early 20th centuries. May be repeated up to 6 hours. 3(1-4) S

**THE 424 Dialects**

Prerequisite: THE 421. An exploration of stage dialects and accents for the actor. 1(0-2) S

**THE 430 Directing I**

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. 3(2-2) F,S

**THE 451 Auditions**

Prerequisite: THE 321. 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. 2(0-4) F

**THE 454 Scene Painting**

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. 3(2-2) SE

**THE 460 Costume Construction II**

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. 3(3-0) D

**THE 490 Supervised Teaching (Secondary Speech and Theatre)**

Prerequisite: THE 417; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes, then teaches speech and theatre 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. May not receive credit for both THE 490 and COM 490. Supplemental course fee. 6 F,S

**THE 491 Supervised Teaching (Secondary Speech and Theatre)**

Prerequisite: concurrent enrollment in THE 490. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. May not receive credit for both THE 491 and COM 491. Supplemental course fee. 6 F,S

**THE 492 Senior BFA Project**

Prerequisite: permission of area coordinator. 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. 1(0-2) F,S

**THE 493 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS

498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**THE 495 Theatre Practicum**

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. 1(0-2) F,S

**THE 496 Readings**

Prerequisite: permission of department head. Individual, experimental or research studies in theatre and performance studies. May be repeated to a total of 9 hours. 1(0-2) F,S

**THE 497 Topics**

Prerequisite: permission of department head. Group creative or special topics in theatre and performance studies. May be repeated to a total of 6 hours. 1-3 F,S

**THE 498 Advanced Actor Seminar**

Prerequisite: THE 421 and permission of instructor. Lecture and laboratory experience for the actor about to enter the professional arena. 2(1-2) F

**THE 499 Projects**

Prerequisite: permission of department head. Supervised individual creative projects in theatre and performance studies. May be repeated to a total of 6 hours. 1-3 F,S

**THE 505 Theatre for Children and Youth**

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. May be taught concurrently with THE 605. Cannot receive credit for both THE 605 and THE 505. 3(3-0) F

**THE 506 Creative Dramatics**

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. May be taught concurrently with THE 606. Cannot receive credit for both THE 606 and THE 506. 3(3-0) S

**THE 510 Scripting and Performing**

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. May be taught concurrently with THE 611. Cannot receive credit for both THE 611 and THE 510. 3(3-0) S

**THE 511 Structures and Styles Shakespeare**

Prerequisite: permission of instructor. Understanding text, style, and dynamics of action in Shakespeare. Creating roles in Shakespeare's plays. 3(2-2) F

**THE 515 Theatre for Social Change**

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. May be taught concurrently with THE 616. Cannot receive credit for both THE 616 and THE 515. 3(3-0) F

**THE 522 Acting for the Camera**

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. May be taught concurrently with THE 623. Cannot receive credit for both THE 623 and THE 522. 3(1-2) S

**THE 530 Directing II**

Prerequisite: THE 430. Advanced directing techniques. Directing of a one-act play. May be taught concurrently with THE 640. Cannot receive credit for both THE 640 and THE 530. 3(2-2) F,S

**THE 541 Theatre History I**

Prerequisite: Writing II. Traces the important periods in the development of theatre from its beginning through the English Restoration. Through analysis of conventions of staging and dramatic literature, examines the aesthetic, cultural, ethical, and social dimensions of theatre in different cultures and time periods. May be taught concurrently with THE 631. Cannot receive credit for both THE 541 and THE 631. 3(3-0) F

**THE 542 Theatre History II**

Prerequisite: Writing II. Traces the important periods in the development of theatre from the 18th century to the present. Through analysis of conventions of staging and dramatic literature, examines the aesthetic, cultural, ethical, and social dimensions of theatre in different cultures and time periods. May be taught concurrently with THE 632. Cannot receive credit for both THE 542 and THE 632. 3(3-0), S

**THE 543 Development of Modern Theatre**

Prerequisite: Writing II. Examines the aesthetic, cultural, ethical, and social dimensions of modern theatre, from the development of naturalism to Theatre of the Absurd, through analysis of staging practices, theatrical theory, and dramatic literature. May be taught concurrently with THE 633. Cannot receive credit for both THE 543 and THE 633. 3(3-0), FO

**THE 545 Contemporary Theatre**

Prerequisite: Writing II. Examines the aesthetic, cultural, ethical, and social dimension of theatre and drama since 1960. Emphasis will be on theatre as an art form and a social and cultural institution. May be taught concurrently with THE 634. Cannot receive credit for both THE 545 and THE 634. 3(3-0), SE

**THE 547 Development of American Theatre**

Prerequisite: Writing II. Study of theatre in the United States from colonial times to the present; with a focus on the cultural and aesthetic variety of American theatrical practice and the theatre as a reflection of various cultural, and political beliefs. May be taught concurrently with THE 635. Cannot receive credit for both THE 635 and THE 547. 3(3-0) FE

**THE 552 Scene Design II**

Prerequisite: THE 275 and THE 281. Advanced designs of selected plays including floor plans, front elevations, white and finished models and renderings. May be taught concurrently with THE 652. Cannot receive credit for both THE 652 and THE 552. 3(2-2) D

**THE 555 Lighting Design II**

Prerequisite: THE 275 and THE 281. Advanced principles and techniques of lighting for theatre, dance, and other performance/presentational events. May be taught concurrently with THE 655. Cannot receive credit for both THE 655 and THE 555. 3(2-2) D

**THE 558 Sound Design for the Theatre**

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. May be taught concurrently with THE 658. Cannot receive credit for both THE 658 and THE 558. 3(2-2) SO

**THE 561 History of Costume and Decor I**

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. May be taught concurrently with THE 671. Cannot receive credit for both THE 671 and THE 561. 3(3-0) F

**THE 562 History of Costume and Decor II**

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. May be taught concurrently with THE 672. Cannot receive credit for both THE 672 and THE 562. 3(3-0) S

**THE 565 Costume Design II**

Prerequisite: THE 380. Emphasis on special problems in costume design including applications of concepts to design projects and presentation of completed design projects. May be taught concurrently with THE 665. Cannot receive credit for both THE 665 and THE 565. 3(2-2) D

**THE 595 Theatre Practicum**

Prerequisite: permission of department head. Acting, stagecraft, costuming and associated work in the Tent Theatre or other specified theatre production. May be taught concurrently with THE 694. Cannot receive credit for both THE 694 and THE 595. 1-6 D

**THE 605 Theatre for Children and Youth**

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. May be taught concurrently with THE 505. Cannot receive credit for both THE 505 and THE 605. 3(3-0) F

**THE 606 Creative Dramatics**

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. 3(3-0), S

**THE 611 Scripting and Performing**

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. May be taught concurrently with THE 510. Cannot receive credit for both THE 510 and THE 611. 3(3-0), S

**THE 616 Theatre for Social Change**

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. May be taught concurrently with THE 515. Cannot receive credit for both THE 515 and THE 615. 3(3-0), F

**THE 623 Acting for the Camera**

Character preparation and control techniques; physical and vocal training; relationship of performer to the aesthetic space, and technological demands of the camera. May be taught concurrently with THE 522. Cannot receive credit for both THE 522 and THE 623. 3(1-2), S

**THE 631 Theatre History I**

Traces the important periods in the development of theatre from its beginning through the English Restoration. Through analysis of conventions of staging and dramatic literature, examines the aesthetic, cultural, ethical, and social dimensions of theatre in different cultures and time periods. May be taught concurrently with THE 541. Cannot receive credit for both THE 541 and THE 631. 3(3-0), F

**THE 632 Theatre History II**

Traces the important periods in the development of theatre from the 18th century to the present. Through analysis of conventions of staging and dramatic literature, examines the aesthetic, cultural, ethical, and social dimensions of theatre in different cultures and time periods. May be taught concurrently with THE 542. Cannot receive credit for both THE 542 and THE 632. 3(3-0), S

**THE 633 Development of Modern Theatre**

Examines the aesthetic, cultural, ethical, and social dimension of modern theatre, from the development of naturalism to Theatre of the Absurd, through analysis of staging practices, theatrical theory, and dramatic literature. May be taught concurrently with THE 543. Cannot receive credit for both THE 543 and THE 633. 3(3-0), FO

**THE 634 Contemporary Theatre**

Examines the aesthetic, cultural, ethical, and social dimension of theatre and drama since 1960. Emphasis will be on theatre as an art form and a social and cultural institution. May be taught concurrently with THE 545. Cannot receive credit for both THE 545 and THE 634. 3(3-0), SE

**THE 635 Development of American Theatre**

Study of theatre in the United States from colonial times to the present with a focus on the cultural and aesthetic variety of American theatrical practice and the theatre as a reflection of various social, cultural, and political beliefs. May be taught concurrently with THE 547. Cannot receive credit for both THE 547 and THE 635. 3(3-0), FE

**THE 640 Directing II**

Advanced directing techniques. Directing of a one-act play. May be taught concurrently with THE 530. Cannot receive credit for both THE 530 and THE 640. 3(2-2), F,S

**THE 652 Scene Design II**

Advanced designs of selected plays including floor plans, front elevations, white and finished models and renderings. 3(2-2), D

**THE 655 Lighting Design II**

Advanced principles and techniques of lighting for theatre, dance, and other performance/presentational events. May be taught concurrently with THE 555. Cannot receive credit for both THE 555 and THE 655. 3(2-2), D

**THE 658 Sound Design for the Theatre**

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. May be taught concurrently with THE 558. Cannot receive credit for both THE 558 and THE 658. 3(2-2), SO

**THE 665 Costume Design II**

Emphasis on special problems in costume design including applications of concepts to design projects and presentation of completed design projects. May be taught concurrently with THE 565. Cannot receive credit for both THE 565 and THE 665. 3(2-2), D

**THE 671 History of Costume and Decor I**

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. May be taught concurrently with THE 561. Cannot receive credit for both THE 561 and THE 671. 3(3-0), F

**THE 672 History of Costume/Decor II**

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. May be taught concurrently with THE 562. Cannot receive credit for both THE 562 and THE 672. 3(3-0), S

**THE 694 Theatre Practicum**

Prerequisite: permission of department head. Acting, stagecraft, costuming and associated work in the Tent Theatre or other specified theatre production. May be taught concurrently with THE 595. Cannot receive credit for both THE 595 and THE 694. 1-6, D

**THE 700 Graduate Research Methods in Theatre and Interpretation**

Exploration of the current state of theatre studies. Focuses on strategies for research with primary and secondary sources, critical and theoretical methodologies, and various methods of reporting research. 3(3-0), D

**THE 707 Theatre Pedagogy: Theories and Practices**

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. 3(3-0) F

**THE 710 Seminar: Performance**

Studies in rhetorical, cultural, social and aesthetic dimensions of performance. 3(3-0), SE

**THE 742 Dramatic Theory and Criticism**

Representative theories of dramatic form and function; works of major critics and philosophers from Aristotle to present. 3(3-0) D

**THE 790 Workshop in Theatre**

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. 3-9, S

**THE 793 Degree Paper**

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. 3 F,S,Su

**THE 795 Applied Research Project**

Prerequisite: permission of research advisor and, if applicable, host institution permission 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. 3 F,S,Su

**THE 796 Readings**

Prerequisite: permission of graduate coordinator. Individual, experimental or research studies in theatre and performance studies. May be repeated to total of 6 hours. 1-3 F,S

**THE 797 Topics**

Prerequisite: permission of graduate coordinator. Creative or special topics in theatre and performance studies. May be repeated to total of 6 hours. 1-3 F,S

**THE 798 Thesis Research**

Prerequisite: permission of the graduate coordinator. Research leading to a Master's thesis. Students will present a proseminar on their research during the semester they are enrolled in this course. 3 F,S,Su

**THE 799 Thesis Writing**

Prerequisite: permission of graduate coordinator. 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. 3, F, S, Su



Office of the Registrar  
2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Business Administration

## College of Business Administration

Dean: Professor Stephanie Bryant, Ph.D.

Associate Dean: Professor David B. Meinert, Ph.D.; Interim Associate Dean Elizabeth J. Rozell, Ph.D.

Office: Glass Hall, Room 400

Phone: (417) 836-5646, Fax: (417) 836-4407

Email: COBA@missouristate.edu

Web Site: <http://coba.missouristate.edu/>

### Academic Units

- [School of Accountancy](#)
- [Department of Computer Information Systems](#)
- [Department of Fashion and Interior Design](#)
- [Department of Finance and General Business](#)
- [Department of Management](#)
- [Department of Marketing](#)
- [Department of Technology and Construction Management](#)

### Faculty (as of July 15, 2011)

**Professor:** James E. Cofer, Sr. Ed.D.

### 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 Technology and Construction Management

The Department's Technology Management program is accredited by the National Association of Industrial Technology (NAIT), and the Construction Management program is accredited by the American Council for Construction Education (ACCE).

#### Department of Fashion and Interior Design

The Department's Family and Consumer Sciences B.S.Ed. and M.S.Ed. programs are accredited by the Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE).

## 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 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 & Technology Development Center** provides expert business counseling, training and online resources that help existing businesses grow and prosper and new businesses get started successfully. Counseling is offered in financial analysis, marketing, management and technology development and commercialization. Training seminars and programs are presented on a variety of business topics including: business plan development, financial and business management, human resources, marketing, and international trade. 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.

## 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. Refer to the department sections and the Graduate Catalog for more information.

### Accelerated Master of Business Administration degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Business Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MBA graduation requirement, students exercising the accelerated MBA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Business Advisement Center

The Business Advisement Center at Missouri State University provides academic advisement to students majoring in all six departments within the College of Business Administration. A staff of professional advisors provides a full range of services including information sessions for prospective students, freshman orientation, degree program admission, and graduation checks. For an appointment or more information contact the Business Advisement Center, 106 Glass Hall, (417) 836-5386, or email [BusinessAdvisement@missouristate.edu](mailto:BusinessAdvisement@missouristate.edu).

### Admission and Program Requirements

Applicable to all majors within the business units of the College of Business Administration. Majors in the Department of Technology and Construction Management are excluded from these requirements.

### Admission Requirements

**(Not applicable to majors in the Department of Technology and Construction Management and Department of Fashion and Interior Design)**

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.

### Courses Required for Admission

1. Accounting: ACC 201 and 211, or ACC 206 (4-6 hours)
2. Computers for Learning: CIS 101\* or CSC 101\*(0-2 hours)
3. Public Speaking: COM 115 (3 hours)
4. Economics: ECO 155 and ECO 165 (6 hours)
5. Writing I: ENG 110 (3 hours)
6. Business Communications: MGT 286 (3 hours)
7. Mathematics: MTH 135 or Higher\*\* (3-5 hours)
8. Psychology: PSY 121 (3 hours)
9. Business Statistics: QBA 237 (3 hours)
10. Legal Environment of Business: LAW 231 (3 hours)

*\*May be waived by proficiency exam*

*\*\*Excluding MTH 130 (previous number-MTH 145)*

Admission decisions will be determined by applicants' combined (Missouri State plus transfer) grade point averages. The intent of the College of Business Administration is to limit admissions to a total of 2,000 majors at the combined junior and senior levels. However, all applicants whose combined grade point average is 2.50 or higher will be admitted. 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

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 Technology and Construction Management and Department of Fashion and Interior Design)**

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.

- A. **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.
- B. **COBA Core Requirements**
  1. ACC 201 and ACC 211, or ACC 206 (4-6 hours)
  2. CIS 201 (2 hours)
  3. ECO 155\* and ECO 165 (6 hours)
  4. FIN 380 (3 hours)
  5. MGT 286, MGT 340, and MGT 487 (9 hours)
  6. MKT 350 (3 hours)
  7. PSY 121\* (3 hours)
  8. QBA 237 (3 hours)
  9. LAW 231 and LAW 332 (4 hours)
  10. ACC 341 (Accounting majors); or CIS 461(Computer Information Systems majors); or CIS 429 (all other majors) (3 hours)
  11. MGT 364 or MKT 450 (Marketing majors); or MGT 364 (all other majors) (3 hours)  
*\*May also be used toward general education requirements.*
- C. **Globalization Requirements**
  1. 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.
  2. Foreign Language Courses: ARB, CHI, FRN, GRK, GRM, HBW, ITL, JPN, LTN, PTG, RUS, SPN
  3. 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, 559; 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.*
  4. Approved International Study Courses
  5. Business Courses: only one of the following may count toward the globalization requirement - ACC 506, FIN 582, LAW 539, MGT 447, MKT 464, MKT 474
- D. **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 Technology and Construction Management and Department of Fashion and Interior Design.

#### E. Other Requirements

1. 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.
2. 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 for Transfer Students

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 majors in the Department of Technology and Construction Management and Department of Fashion and Interior Design, 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.

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2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Business Administration > School of Accountancy

## School of Accountancy

Glass Hall, Room 439, Phone: (417) 836-5414, Fax: (417) 836-5164  
Email: [Accountancy@missouristate.edu](mailto:Accountancy@missouristate.edu)  
Website: <http://www.missouristate.edu/SOA>  
Director: Associate Professor John R. Williams, Sr., Ph.D., C.P.A.

### Faculty (as of July 15, 2011)

**Professors:** David B. Byrd, Ph.D.; Sandra D. Byrd, C.P.A., Ph.D.; Sidney R. Ewer, Ph.D., C.I.A., C.P.A. (inactive-Tennessee); Olen L. Greer, Ph.D., C.M.A.; S. Michael Groomer, Ph.D., C.P.A., C.I.S.A., C.I.T.P.; Lester E. Heitger, Ph.D., C.P.A.; James C. Lampe, Ph.D., C.P.A.; Debra H. Oden, LL.M.-Tax, J.D., C.P.A.; Stevan K. Olson, Ph.D., C.P.A.; George D. Schmelzle, Ph.D.

**Associate Professors:** Phillip D. Harsha, Ph.D., C.I.A.; A. Craig Keller, Ph.D.; Carl E. Keller, Jr., Ph.D., C.P.A. (inactive); Geanie W. Margavio, Ph.D., C.P.A.

**Assistant Professor:** Paul A. Ashcroft, Ph.D., C.P.A.

**Senior Instructors:** Samuel J. Bass, MAcc.; Michael R. Hammond, MAcc., C.P.A.

**Instructor:** Anita V. Brand, M.B.A.

**Emeritus Faculty:** Ronald R. Bottin, Ph.D.; Wilbur Bridges, M.B.A.; Kenneth W. Brown, Ph.D.; Radie G. Bunn, M.S. Tax, J.D.; M. Virginia Cerullo, Ph.D.; Michael J. Cerullo, Ph.D.; Kurt E. Chaloupecky, Ph.D.; Terry L. Loveland, MAcc.; Jon R. Nance, Ph.D.; Richard L. Nichols, Ph.D.; Keith B. Scott, Ph.D.; Sarah L. Thompson, M.T.

### Accreditation

AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Mission Statement

The School of Accountancy (SOA) cultivates a comprehensive, high quality accounting education environment, serving graduate and undergraduate accounting majors, business majors, and other interested persons. Student development is the School's top priority, and the primary responsibility of a full-time faculty engaged with its students. Accordingly, faculty encourages interaction with students in the classroom, during office visits and through other school, college, and university programs. The faculty is also engaged in productive scholarship and meaningful service and interaction with the accounting profession, the University, and the larger community. The SOA acknowledges that teaching, research, and service are integrated, complementary activities. These scholarly endeavors advance knowledge, foster an attitude of inquiry, meet the needs of society, and contribute to student learning.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Master of Accountancy degree.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Accountancy Degree

Eligible Missouri State 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 accepted, up to six hours of 600-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. Refer to the Graduate Catalog or contact the School of Accountancy for further information and guidelines.

#### Accelerated Master of Business Administration Degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Business Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MBA graduation requirement, students exercising the accelerated MBA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in

Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

#### University Certificates (graduate)

Graduate level certificate programs are available in Forensic Accounting and in Tax Accounting. Refer to the Graduate Catalog for more information.

### General Information

**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. Students should consult with their advisor (and other faculty) concerning this opportunity.

**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.

### Majors

#### Accounting (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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), 470(1), 553(3)
  2. Complete 3 courses from: ACC 504(3), 506(3), 513(3), 524(3), 525(3), 532(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 [General Baccalaureate Degree Requirements](#) section of catalog

### Minors

#### Accounting

Bachelor of Applied Science  
 Bachelor of Arts  
 Bachelor of Science

ACC 201(3)\*, 211(3)\*, 301(3)

\* ACC 206(4) may be substituted for ACC 201 and 211

- A. Complete nine additional hours of accounting from: ACC 302(3), 311(3), 321(3), 341(3), 504(3), 506(3), 513(3), 524(3), 525(3), and 532(3).

### Accounting Courses

#### ACC 109 The Accounting Cycle

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. 1(1-0) D

#### ACC 121 Individual Tax Return Preparation

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. 1(1-0) D

#### ACC 201 Introduction to Financial Accounting

Prerequisite: completion of 24 credit hours; and MSU GPA of 2.00; and combined (MSU and transfer) GPA of 2.00; and the math general education requirement with a grade of "C" or better. Methods and procedures employed in financial accounting with emphasis on development and interpretation of financial statements. Credit by examination is available. A grade of "B" or better is required to take ACC 301, 321, or 532. 3(3-0) F,S

#### ACC 206 Accounting Choices and Methods

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 311. A grade of "B" or better is required in this course in order to take ACC 301 or ACC 321 or ACC 532. May not be taken Pass/Not Pass. 4(4-0) F,S

#### ACC 209 Accounting Applications for Microcomputers

Use of the microcomputer and electronic spreadsheets to master the basic accounting cycle. 1(1-0) D

#### ACC 211 Introduction to Managerial Accounting

Prerequisite: ACC 201; and CIS 201 or concurrent enrollment. Methods and procedures employed in managerial accounting with

emphasis on the use of accounting data for decision making. At least one spreadsheet project will be assigned. A grade of "C" or better is required in this course in order to take ACC 311. A grade of "B" or better is required in this course to take ACC 301. This course may not be taken Pass/Not Pass. 3(3-0) F,S

**ACC 297 Topics in Accounting**

A variable content course with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. 1-3 D

**ACC 301 Intermediate Accounting I**

Prerequisite: grade of "B" or better in ACC 201 and ACC 211 or grade of "B" or better in ACC 206 or ACC 600; 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, 553, or 653. May not be taken Pass/Not Pass. 3(3-0) F,S

**ACC 302 Intermediate Accounting II**

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 504, 604, 506, 606, 553, or 653. May not be taken Pass/Not Pass. 3(3-0) F,S

**ACC 311 Managerial Cost Accounting**

Prerequisite: grade of "C" or better in one of ACC 211 or ACC 206 or ACC 600; 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 513, 613, 553, or 653. 3(3-0) F,S

**ACC 321 Tax Accounting I**

Prerequisite: grade of "B" or better in one of ACC 201 or ACC 206 or ACC 600; 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 524, 624, 525, 625, 553 or 653. May not be taken Pass/Not Pass. 3(3-0) F,S

**ACC 341 Accounting and Management Information Systems**

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 553 OR 653. May not be taken Pass/Not Pass. 3(3-0) F,S

**ACC 394 Cooperative Education in Accounting**

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. 1-3 D

**ACC 397 Topics in Accounting**

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. 1-3 D

**ACC 421 Volunteer Income Tax Assistance VITA**

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. 1(0-2) S

**ACC 422 Advanced Volunteer Income Tax Assistance VITA**

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. 1(0-2) S

**ACC 470 Professionalism in Accountancy**

Prerequisite: 6 hours of upper division accounting courses; and undergraduate business majors must be admitted to COBA. Cases (including written and oral presentations) will focus on ethical and regulatory issues in accounting. Students will focus on professional behavior appropriate for accounting professionals. A grade of "C" or better is required in this course in order to take ACC 553 or 653. 1(1-0) F,S

**ACC 494 Internship in Accounting**

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. 5(0-10) D

**ACC 496 Readings in Business Administration-Accounting**

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. 1-2 D

**ACC 504 Advanced Accounting**

Prerequisite: grade of "C" or better in ACC 302; and undergraduate business majors must be admitted to COBA. Study of accounting for pensions, deferred taxes, business combinations, partnerships, and certain multicurrency accounting issues. May be taught concurrently with ACC 604. Cannot receive credit for both ACC 604 and ACC 504. 3(3-0) F,S

**ACC 506 International Accounting**

Prerequisite: grade of "C" or better in ACC 302; and undergraduate business majors must be admitted to COBA. Accounting



practices in different nations; multi-national corporation and selected accounting problems. May be taught concurrently with ACC 606. Cannot receive credit for both ACC 506 and ACC 606. 3(3-0), F,S

**ACC 513 Managerial Cost Accounting II**

Prerequisite: grade of "C" 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. May be taught concurrently with ACC 613. Cannot receive credit for both ACC 513 and ACC 613. 3(3-0), S

**ACC 524 Tax Accounting II**

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. May be taught concurrently with ACC 624. Cannot receive credit for both ACC 524 and ACC 624. 3(3-0), F,S

**ACC 525 Individual Income Tax Assistance**

Prerequisite: grade of "C" or better in ACC 321; and permission of instructor; and undergraduate business majors must be admitted to COBA. To provide undergraduate/graduate students with an opportunity to integrate intermediate tax accounting skills, critical thinking skills, communication skills, and research skills with community service. This course provides service-learning experience in the preparation and review of actual individual income tax returns (both federal and state) as well as the social and ethical issues inherent in US tax policy. May be taught concurrently with ACC 625. Cannot receive credit for both ACC 525 and ACC 625. 3(1-4), S

**ACC 532 Governmental and Not-For-Profit Organizational Accounting**

Prerequisite: 75 credit hours; and a grade of "C" or better in ACC 301; 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. May be taught concurrently with ACC 632. Cannot receive credit for both ACC 532 and ACC 632. 3(3-0), F,S

**ACC 553 Auditing**

Prerequisite: grades of "C" or better in ACC 301 and ACC 302 and ACC 311 and ACC 321 and ACC 341 and ACC 470; 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 703, 750, 751, 752, 754 and 790. This course has a required assessment component. May not be taken Pass/Not Pass. May be taught concurrently with ACC 653. Cannot receive credit for both ACC 553 and ACC 653. 3(3-0), F,S

**ACC 555 Internal Auditing**

Prerequisite: grade of "C" or better in ACC 341; 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. May be taught concurrently with ACC 655. Cannot receive credit for both ACC 655 and ACC 555. 3(3-0), D

**ACC 556 Operational Auditing**

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. May be taught concurrently with ACC 656. Cannot receive credit for both ACC 656 and ACC 556. 3(3-0), D

**ACC 596 Research Issues and Problems: Accounting**

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. May be taught concurrently with ACC 695. Cannot receive credit for both ACC 695 and ACC 596. 1-3 D

**ACC 600 Accounting Concepts for Managers**

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 and managerial accounting. Designed for graduate students who have not had an undergraduate course in accounting. Will not be counted in the hours required for a COBA graduate degree. 3(3-0), F,S

**ACC 604 Advanced Accounting**

Prerequisite: grade of "C" or better in ACC 302; and admitted to the MACC Program. Study of accounting for pensions, deferred taxes, business combinations, partnerships, and certain multicurrency accounting issues. May be taught concurrently with ACC 504. Cannot receive credit for both ACC 504 and ACC 604. 3(3-0), F,S

**ACC 606 International Accounting**

Prerequisite: grade of "C" or better in ACC 302; and admitted to the MACC Program. Accounting practices in different nations; multi-national corporation and selected accounting problems. May be taught concurrently with ACC 506. Cannot receive credit for both ACC 506 and ACC 606. 3(3-0), F,S

**ACC 613 Managerial Cost Accounting II**

Prerequisite: grade of "C" or better in ACC 311 and admitted to the MACC Program. 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. May be taught concurrently with ACC 513. Cannot receive credit for both ACC 513 and ACC 613. 3(3-0), S



#### **ACC 624 Tax Accounting II**

Prerequisite: grade of "C" or better in ACC 321; and admitted to the MACC Program. Principles of federal tax accounting; research in income tax problems of partnerships and corporations; estate and gift tax problems of individuals. May be taught concurrently with ACC 524. Cannot receive credit for both ACC 524 and ACC 624. 3(3-0), F,S

#### **ACC 625 Individual Income Tax Assistance**

Prerequisite: grade of "C" or better in ACC 321; and permission of instructor; and admitted to the MACC Program. To provide students with an opportunity to integrate intermediate tax accounting skills, critical thinking skills, communication skills, and research skills with community service. This course provides service-learning experience in the preparation and review of actual individual income tax returns (both federal and state) as well as the social and ethical issues inherent in US tax policy. May be taught concurrently with ACC 525. Cannot receive credit for both ACC 525 and ACC 625. 3(1-4), S

#### **ACC 632 Governmental and Not-For-Profit Organizational Accounting**

Prerequisite: grade of "C" or better in ACC 301; and admitted to the MACC Program. Governmental and not-for-profit organizational accounting records and funds, budgeting, budget control, analysis and interpretation of financial statements. May be taught concurrently with ACC 532. Cannot receive credit for both ACC 532 and ACC 632. 3(3-0), F,S

#### **ACC 653 Auditing**

Prerequisite: grades of "C" or better in ACC 301 and ACC 302 and ACC 311 and ACC 321 and ACC 341 and ACC 470; and admitted to the MACC Program. 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 703, 750, 751, 752, 754 and 790. This course has a required assessment component. May be taught concurrently with ACC 553. Cannot receive credit for both ACC 553 and ACC 653. 3(3-0), F,S

#### **ACC 655 Internal Auditing**

Prerequisite: grade of "C" or better in ACC 341; and admitted to the MACC Program. Functions of internal audit, financial audit, and operations audit; importance of the changing professional status of the internal auditor. May be taught concurrently with ACC 555. Cannot receive credit for both ACC 555 and ACC 655. 3(3-0), D

#### **ACC 656 Operational Auditing**

Prerequisite: admitted to MACC Program. 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. May be taught concurrently with ACC 556. Cannot receive credit for both ACC 556 and ACC 656. 3(3-0), D

#### **ACC 688 Healthcare Accounting Concepts**

The role of accounting in the financial and operational management of healthcare organizations is approached via an introduction to healthcare financial and managerial accounting principles. This course addresses the definition of financial accounting; external reporting; development and use of the income statement, balance sheet and statement of cash flows. The course also addresses the managerial accounting topics of cost behavior and allocation; accounting data for pricing and service decisions; planning and budgeting in healthcare organizations; analysis of financial condition; and selected topics in ethics. The course is a core requirement for Master of Health Administration students and may be of interest to students in other graduate programs. Note that ACC 688 cannot be substituted for ACC 711 in the MBA program and cannot be counted in the 33 semester hours required for the MAcc degree. 3(3-0) S,Su

#### **ACC 695 Research Issues and Problems: Accounting**

Prerequisite: permission of the School of Accountancy Director; and admitted to the MACC Program. 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. May be taught concurrently with ACC 596. Cannot receive credit for both ACC 596 and ACC 695. 1-3, D

#### **ACC 703 Seminar in Accounting Theory**

Prerequisite: grade of "C" or better in ACC 653 or ACC 553; and admitted to the MACC Program. Critical evaluation and interpretation of accounting theory. Completion of a significant research project. 3(3-0), F,S

#### **ACC 705 Advanced Financial Accounting Problems**

Prerequisite: grade of "C" or better in ACC 302; and grade of "C" or better in ACC 504 or ACC 604 or concurrent enrollment in ACC 504 or ACC 604; and admitted to MACC program. 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. 3(3-0), F,S

#### **ACC 711 Managerial Accounting**

Prerequisite: grade of "C" or better in ACC 211 or ACC 206 or ACC 600; and admitted to MBA or MHA program. 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. 3(3-0), F,S

#### **ACC 712 Controllership and Communication**

Prerequisite: grade of "C" or better in ACC 311 or in ACC 711; and admitted to the MACC Program. 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. 3(3-0), F

#### **ACC 715 Advanced Cost Accounting**

Prerequisite: grade of "C" or better in ACC 311 or in ACC 711; and admitted to the MACC Program. 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. 3(3-0), S

**ACC 721 Advanced Tax Accounting**

Prerequisite: grade of "C" or better in ACC 321; and grade of "C" or better in ACC 624 or in ACC 524; and admitted to MACC program. Case study approach to develop tax research, analytical, and communication skills. Incorporated into the case studies are ethical and legal constraints within which tax practitioners are obligated to operate. 3(3-0), S

**ACC 722 Public Service Tax Accounting**

Prerequisite: permission of instructor; and admitted to MACC program. 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. 3(2-3), S

**ACC 723 Tax Considerations for Decision Makers**

Prerequisite: grade of "C" or better in ACC 624 or in ACC 524; and admitted to MACC program. Tax course with emphasis on recognizing and understanding the importance of tax considerations in the process of making decisions in business and personal matters; developing a tax institution to anticipate and understand the effect of prospective tax law changes; examining U.S. tax policy issues; and motivating students to a lifetime of learning by engaging them in independent study. 3(3-0), F

**ACC 731 Control of Non-Profit Organizations**

Prerequisite: grade of "C" or better in ACC 311 or in ACC 711; and admitted to MACC program. 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. 3(3-0), D

**ACC 741 Advanced Accounting and Management Information Systems**

Prerequisite: grade of "C" or better in ACC 341; and admitted to MACC program. 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. 3(3-0), F

**ACC 750 Advanced Auditing**

Prerequisite: grade of "C" or better in ACC 653 or in ACC 553; and admitted to MACC program. External auditing procedures; implementing auditing standards; verifying adherence to generally accepted accounting principles; importance of the auditor's attest function. 3(3-0), F,S

**ACC 751 Information Systems Auditing**

Prerequisite: grade of "C" or better in ACC 653 or in ACC 553; and admitted to MACC program. 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. 3(3-0), S

**ACC 752 Fraud Examination**

Prerequisite: grade of "C" or better in ACC 653 or in ACC 553; and admitted to MACC program. 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. 3(3-0), D

**ACC 754 Forensic Accounting: Litigation Support and Expert Witnessing**

Prerequisite: grade of "C" or better in ACC 653 or ACC 553; and admitted to MACC program. This course explores one of the major areas of practice in forensic accounting. The course provides an in-depth investigation into the world of accounting litigation support and financial expert witnessing. The course requires students to actively participate in case analysis, development of expert reports, deposition testimony, and trial testimony. Students are exposed to the legal issues that impact on their role as an expert witness. 3(3-0) F,S

**ACC 790 Seminar in Accounting**

Prerequisite: grade of "C" or better in ACC 653 or ACC 553; and admitted to MACC program. 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. 3(3-0), F,S

**ACC 794 Internship: Accounting**

Prerequisite: 12 graduate credit hours of accounting courses; and permission of instructor; and admitted to MACC program. 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. 3(3-0), D

**ACC 796 Independent Study-Accounting**

Prerequisite: permission of instructor; and admitted to the MACC program. 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. 1-3, D

**ACC 797 Special Topics in Accounting**

Prerequisite: 9 graduate hours of accounting courses; and admitted to the MACC program. 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. 1-3, D

**ACC 799 Thesis**

Prerequisite: permission of instructor; and admitted to the MACC program. Independent research and study connected with preparation of thesis. 1-6, D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Business Administration > Department of Computer Information Systems

## Department of Computer Information Systems

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Website: <http://cis.missouristate.edu>  
Department Head: Professor Jerry M. Chin, D.B.A.

### Faculty (as of July 15, 2011)

**Professors:** Tonya Barrier, Ph.D.; Ronald Dattero, Ph.D.; Michael Hignite, Ph.D.; Richard Johnson, Ph.D.; Rajeev Kaula, Ph.D.; Thomas M. Margavio, Ph.D.; David B. Meinert, Ph.D.; John W. Satzinger, Ph.D.; Randall S. Sexton, Ph.D.

**Associate Professors:** Sheryl Brahnham, Ph.D.; Duane Moses, Ph.D.

**Senior Instructors:** Michelle Hulett, M.B.A.; Shannon McMurtrey, M.B.A.; Glenna Vanderhoof, Ph.D.; Cathy VanLanduyt, M.B.A.

**Instructors:** Richard Burton, M.B.A.; Sara J. Evans, M.B.A.

**Emeritus Professors:** James T. Brown, Ed.D.; William Cornette, Ph.D.; Ken Douglas, Ph.D.; Irene A. Francka, Ed.S.; Lois M. Garrett, M.Ed.; Woodfin C. Garrett, M.T.; Neva P. Maddox Johnson, M.Ed.; Chung S. Kim, Ph.D.; Heidi R. Perreault, Ed.D.; Maxine W. Short, M.Ed.; Jean C. Swanson, Ph.D.; Ann L. Wilson, M.S.

### Accreditation

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.

### Graduate Programs

The following graduate programs are available:

Computer Information Systems (Master of Science); and Secondary Education with an option in Business (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Business Administration Degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Business Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MBA graduation requirement, students exercising the accelerated MBA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

#### Computers for Learning 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 hours are not granted for this examination. For more information, refer to the web site at <http://learning.missouristate.edu>.

### 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. Refer to the Teacher Education Program section of the catalog for requirements.

- A. General Education Requirements - see [General Education Program 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 the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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:

- Have a combined grade point average (Missouri State plus transfer) of 2.50 or higher
- 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)
- 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 [General Education Program 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 Computer Information Systems majors)
- C. Major Requirements
  1. CIS 230(3), 260(3), 270(3), 321(3), 326(3), 431(3), 528(3), 591(3)
  2. CIS 334(3) or 350(3)
  3. Complete 3 hours from the following: CIS 316(3), 323(3), 330(3), 334(3), 350(3), 370(3), 375(3), 394(3), 397(3), 540(3)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Information Technology Service Management (Comprehensive)**

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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 Information Technology Service Management majors)
- C. Major Requirements: CIS 230(3); CIS 260(3) or equivalent; 281(3), 321(3), 326(3), 330(3), 381(3), 420(3), 525(3); MGT 565(3)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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); LAW 231(3) (35 hours)
- B. BSE 503(3) 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 230(3), 260(3), 270(3), 321(3), 326(3)

B. Complete 3 additional hours from the following: CIS 323(3), 330(3), 334(3), 350(3), 370(3), 375(3), 394(3), 397(3)

### **Information Technology Service Management**

Bachelor of Applied Science

Bachelor of Arts

Bachelor of Science

A. CIS 230(3), 281(3), 330(3), 381(3)

B. Complete 3 additional hours from CIS 260(3) or 382(3) or 420(3) or 525(3)

### **Web Application Development**

Bachelor of Applied Science

Bachelor of Arts

Bachelor of Science

A. CIS 260(3), 321(3), 326(3), 330(3), 370(3), 375(3)

## **Business Education Courses**

### **BSE 493 Supervised Teaching (Secondary Business)**

Prerequisite: completion of all methods courses in Business; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches business 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

### **BSE 494 Supervised Teaching (Secondary Business)**

Prerequisite: concurrent enrollment in BSE 493. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. The course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

### **BSE 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

### **BSE 503 Teaching of Business**

Prerequisite: EDC 350; and ACC 211 or ACC 206; and admitted to teacher education program; and 70 hours; and approved major or minor in business. 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. May be taught concurrently with BSE 603. Cannot receive credit for both BSE 603 and BSE 503. 3(3-0) F

### **BSE 509 Business Education Workshop**

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. May be taught concurrently with BSE 609. Cannot receive credit for both BSE 609 and BSE 509. 1-5 D

### **BSE 520 Occupational Analysis**

Prerequisite: teacher certification student. Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. Identical with AGV 520. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with BSE 620. Cannot receive credit for both BSE 620 and BSE 520. 1-2 D

### **BSE 522 Philosophy of Vocational Education**

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. Meets Missouri Vocational Education certification requirements. Identical with AGV 522 and SEC 522. May be repeated to a total of 3 hours when topic varies. May be taught concurrently with BSE 622. Cannot receive credit for both BSE 622 and BSE 522. 1-3 D

### **BSE 523 Guidance for Vocational Development**

Prerequisite: teacher certification student. Materials, procedures, and problems in guidance of individuals in the selection of, preparation for, and advancement in a vocation. Identical with AGV 523. May be repeated to a total of 3 hours when topic varies. May be taught concurrently with BSE 623. Cannot receive credit for both BSE 623 and BSE 523. 1-3 D

### **BSE 524 Implementing Vocational Business Education Programs**

Prerequisite: teacher certification student. Problems; procedures; and local, state and federal relationships in the implementation and administration of vocational business education in the contemporary school. May be taught concurrently with BSE 624. Cannot receive credit for both BSE 624 and BSE 524. 1-3 D

**BSE 526 Coordination of Cooperative Education**

Prerequisite: teacher certification student. Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Restricted to those who can qualify as coordinators. Identical with AGV 526 and SEC 526. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with BSE 626. Cannot receive credit for both BSE 626 and BSE 526. 1-2 D

**BSE 528 Measurement and Evaluation of Vocational Education Programs**

Prerequisite: teacher certification student. 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. Identical with AGV 528 and SEC 528. May be repeated to a total of 3 hours when topic varies. May be taught concurrently with BSE 628. Cannot receive credit for both BSE 628 and BSE 528. 1-3 D

**BSE 540 Curriculum Development for Business Education**

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. May be taught concurrently with BSE 640. Cannot receive credit for both BSE 640 and BSE 540. 3(3-0) S

**BSE 596 Problems in Business Education**

Prerequisite: permission of department head. 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. May be taught concurrently with BSE 696. Cannot receive credit for both BSE 696 and BSE 596. 1-3 F, S

**BSE 603 Teaching of Business**

Prerequisite: EDC 350; and ACC 211 or ACC 206; and Teacher Certification students must be admitted to teacher education program; and approved major 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 be taught concurrently with BSE 503. Cannot receive credit for both BSE 503 and BSE 603. 3(3-0), F

**BSE 609 Business Education Workshop**

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. May be taught concurrently with BSE 509. Cannot receive credit for both BSE 509 and BSE 609. 1-5, D

**BSE 620 Occupational Analysis**

Prerequisite: teacher certification student. Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. Identical with AGV 620. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with BSE 520. Cannot receive credit for both BSE 520 and BSE 620. 1-2, D

**BSE 622 Philosophy of Vocational Education**

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. Meets Missouri Vocational Education certification requirements. Identical with AGV 622 and SEC 622. May be repeated to a total of 3 hours when topic varies. May be taught concurrently with BSE 522. Cannot receive credit for both BSE 522 and BSE 622. 1-3, D

**BSE 623 Guidance for Vocational Development**

Prerequisite: teacher certification student. Materials, procedures, and problems in guidance of individuals in the selection of, preparation for, and advancement in a vocation. Identical with AGV 623. May be repeated to a total of 3 hours when topic varies. May be taught concurrently with BSE 523. Cannot receive credit for both BSE 523 and BSE 623. 1-3, D

**BSE 624 Implementing Vocational Business Education Programs**

Prerequisite: teacher certification student. Problems; procedures; and local, state and federal relationships in the implementation and administration of vocational business education in the contemporary school. May be taught concurrently with BSE 524. Cannot receive credit for both BSE 524 and BSE 624. 1-3, D

**BSE 626 Coordination of Cooperative Education**

Prerequisite: teacher certification student. Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Restricted to those who can qualify as coordinators. Identical with AGV 626 and SEC 626. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with BSE 526. Cannot receive credit for both BSE 526 and BSE 626. 1-2, D

**BSE 628 Measurement and Evaluation of Vocational Education Programs**

Prerequisite: teacher certification student. 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. Identical with AGV 628 and SEC 628. May be repeated to a total of 3 hours when topic varies. May be taught concurrently with BSE 528. Cannot receive credit for BSE 528 and BSE 628. 1-3, D

**BSE 640 Curriculum Development for Business Education**

Prerequisite: teacher certification student must be 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. May be taught concurrently with BSE 540. Cannot receive credit for both BSE 540 and BSE 640. 3(3-0), S

**BSE 696 Problems in Business Education**

Prerequisite: permission of department head. 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. May be taught concurrently with BSE 596. Cannot receive credit for both BSE 596 and BSE 696. 1-3, F,S

**BSE 705 Curriculum Construction in Business Education**

Objectives and interrelationships of business education courses and programs. Development of curricular materials and evaluative devices. Identical with SEC 705. May be repeated to a total of 3 hours when topic varies. 1-3, D

**BSE 710 Improvement of Instruction in Business Education**

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. 1-3, D

**BSE 730 Research Seminar in Business Education**

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. 3(3-0), D

## Computer Information Systems Courses

**CIS 101 Computers for Learning**

General Education Course (Basic Required Courses). Fundamental computer concepts including word processing spreadsheets, assessing information and the responsible use of information and technology. Course may be waived by proficiency exam. Identical with CSC 101. Cannot receive credit for both CIS 101 and CSC 101. 2(1-2) F,S

**CIS 195 Introduction to Desktop Publishing**

Prerequisite: CIS 101 or CSC 101 or CSC 111 or CIS/CSC 101 waiver exam. Introduction to desktop publishing concepts and applications. 3(3-0) F

**CIS 197 Topics in Computer Information Systems**

Prerequisite: permission of department head. Study of topics in Computer Information Systems. May be repeated as topics change to a total of 6 hours. 1-3 D

**CIS 201 Computer Applications for Business**

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. 2(2-0) F,S

**CIS 202 Program Design and Development**

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. 3(3-0) F,S

**CIS 205 Web Site Design and Development**

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. 3(3-0) F,S

**CIS 223 Introduction to COBOL Programming**

Prerequisite: CIS 202. Introduction to COBOL (Common Business Oriented Language) programming to process business data. 3(3-0) F,S

**CIS 224 Windows Programming with Development Tools**

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. 3(3-0) F,S

**CIS 230 Computer Hardware and Operating Systems**

Prerequisite: CIS 101 or CSC 101 or CSC 111 or waiver exam. A study of computer hardware and operating system software as it relates to the IT professional. Computer networking is introduced. 3(3-0) F,S

**CIS 260 Application Development I**

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. 3(3-0) F,S

**CIS 270 Application Development II**

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. 3(3-0) F,S

**CIS 281 Introduction to IT Service Management**

Prerequisite: CIS 230 or concurrent enrollment. Introduction to the field of Information Technology (IT) Service Management. IT Service Management provides for the effective and efficient delivery of IT services in support of changing business needs. Topics include technical infrastructure, service operations, service support, and service delivery. 3(3-0) S

**CIS 290 Advanced Microcomputer Applications**

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. 3(3-0) F,S



**CIS 294 Internship in Computer Information Systems**

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. 1-3 F,S

**CIS 316 Computer Programming in RPG**

Prerequisite: CIS 270; and undergraduate business majors must be admitted to COBA. Solving business-oriented problems using RPG (Report Program Generator) programming language. 3(3-0) F,S

**CIS 320 Survey of Computer Languages**

Prerequisite: CIS 223 or CIS 224 or CIS 260; 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. 3(3-0) D

**CIS 321 Information Systems Analysis and Design**

Prerequisite: CIS 260; and undergraduate business majors must be admitted to COBA. A study of the analysis and design of computer information systems emphasizing UML and agile development. 3(3-0) F,S

**CIS 323 Advanced COBOL Programming Techniques**

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. 3(3-0) F,S

**CIS 326 Database Management Systems Concepts and Design**

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. 3(3-0) F

**CIS 330 Advanced Networking and Linux System Administration**

Prerequisite: CIS 230; and undergraduate business majors must be admitted to COBA. A continuation of CIS 230 emphasizing advanced computer networking and Linux system administration. 3(3-0) F,S

**CIS 334 Advanced Windows Applications Programming**

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. 3(3-0) F,S

**CIS 350 Advanced Object Oriented Programming**

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. 3(3-0) F,S

**CIS 360 Object Technology II**

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. 3(3-0) F,S

**CIS 370 Web Application Development for Business I**

Prerequisite: CIS 260 and undergraduate business majors must be admitted to COBA. 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). 3(3-0) F

**CIS 375 Web Application Development for Business II**

Prerequisite: CIS 370; 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. 3(3-0) S

**CIS 381 Incident and Problem Management**

Prerequisite: CIS 281; and CIS 330 or concurrent enrollment; and undergraduate business majors must be admitted to COBA. Methods for managing incidences (detecting and resolving any event which is not part of the standard operation of a service and which causes, or may cause, an interruption to, or a reduction in the quality of that service) and problems (identifying the underlying cause of actual and potential failures in the provision of a service). Techniques to provide high quality interactions with users will be stressed. 3(3-0) F

**CIS 382 IT Service Level Management**

Prerequisite: CIS 281; and undergraduate business majors must be admitted to COBA. Methods for developing, monitoring, and reporting on service level agreements. Approaches to review service achievements to ensure that the required and cost-justifiable service quality is maintained and gradually improved. Methods for pricing IT services will be surveyed. 3(3-0) S

**CIS 385 Records Storage and Retrieval Systems**

Prerequisite: undergraduate business majors must be admitted to COBA. A study of the design and use of records storage and

retrieval systems to include micrographics, electronic controls, and optical disk systems. 3(3-0) F,S

**CIS 394 Cooperative Education in CIS**

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. 1-3 F,S

**CIS 396 Readings in Computer Information Systems**

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. 1-2 D

**CIS 397 Topics in Computer Information Systems**

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. 1-3 F,S

**CIS 420 IT Services Project Management**

Prerequisite: CIS 321 or CIS 381 or CIS 382; and FIN 380 and MGT 364; and undergraduate business majors must be admitted to COBA. A study of the concepts, practices, processes, tools, techniques and resources used to manage the entire life cycle of IT service projects. The importance of financial budgeting, accounting, and reporting will be stressed. Case studies will be used extensively. 3(3-0) S

**CIS 429 Information Systems in Business**

Prerequisite: CIS 201; 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. 3(3-0) F,S

**CIS 431 Advanced Systems Analysis and Design**

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. 3(3-0) F,S

**CIS 461 Strategic Management Information Systems**

Prerequisite: CIS 321 or CIS 381 or CIS 382; 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 761. 3(3-0) F,S

**CIS 494 Internship in Computer Information Systems**

Prerequisite: permission of department head; and undergraduate business majors must be admitted to COBA. Work-study program with cooperating 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. 1-3 F,S

**CIS 510 E-Business Technology Concepts**

Prerequisite: CIS 201 and BUS 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. May be taught concurrently with CIS 610. Cannot receive credit for both CIS 610 and CIS 510. 3(3-0) F,S

**CIS 515 Fourth-Generation Languages**

Prerequisite: CIS 321 or CIS 429; 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, database query, screen development and graphics. May be taught concurrently with CIS 615. Cannot receive credit for both CIS 615 and CIS 515. 3(3-0) S

**CIS 522 Decision Support Systems Development**

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. May be taught concurrently with CIS 622. Cannot receive credit for both CIS 622 and CIS 522. 3(3-0) D

**CIS 525 Computer Security**

Prerequisite: MGT 340; and undergraduate business majors must be admitted to COBA. Primarily, but not exclusively, designed for MBA students, CIS undergraduates, and IT Service Management undergraduates. The course is an introduction to the basic issues in computer security. This course is managerial in its approach in that the student is not required to have an extensive background in programming or technical support. May be taught concurrently with CIS 625. Cannot receive credit for both CIS 625 and CIS 525. 3(3-0) D

**CIS 528 Database Management Systems Implementation**

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. May be taught concurrently with CIS 628. Cannot receive credit for both CIS 628 and CIS 528. 3(3-0) F,S

#### **CIS 530 Training for End User Computing**

Prerequisite: undergraduate business majors must be admitted to COBA. An analysis of the training function and its application to end user computing. Emphasis on selecting appropriate methods and media. May be taught concurrently with CIS 630. Cannot receive credit for both CIS 630 and CIS 530. 3(3-0) F

#### **CIS 540 Advanced Network Administration**

Prerequisite: CIS 330 or CSC 465; 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. May be taught concurrently with CIS 641. Cannot receive credit for both CIS 641 and CIS 540. 3(3-0) F,S

#### **CIS 550 Advanced Object-Oriented Systems**

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. May be taught concurrently with CIS 651. Cannot receive credit for both CIS 651 and CIS 550. 3(3-0) F,S

#### **CIS 591 Information Systems Development**

Prerequisite: 90 hours; and CIS 323 or CIS 334 or CIS 350 or CIS 375; and CIS 431 or 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. May be taught concurrently with CIS 691. Cannot receive credit for both CIS 691 and CIS 591. 3(3-0) F,S

#### **CIS 596 Problems in Business Computer Information Systems**

Prerequisite: 60 hours; 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. May be taught concurrently with CIS 696. Cannot receive credit for both CIS 696 and CIS 596. 1-3 D

#### **CIS 600 Information Systems in Business Organizations**

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 graduate degree. 3(3-0), F,S

#### **CIS 610 e-Business Technology Concepts**

Prerequisite: BUS 510 or BUS 610 or permission of director of COBA graduate program. An introduction to e-Business and Internet concepts and technology. The course emphasizes content driven web development using database concepts. May be taught concurrently with CIS 510. Cannot receive credit for both CIS 510 and CIS 610. 3(3-0), F,S

#### **CIS 615 Fourth-Generation Languages**

Prerequisite: permission of a director of a COBA graduate program. 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, database query, screen development and graphics. May be taught concurrently with CIS 515. Cannot receive credit for both CIS 515 and CIS 615. 3(3-0), S

#### **CIS 622 Decision Support Systems Development**

Prerequisite: permission of a director of a COBA graduate program. 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. May be taught concurrently with CIS 522. Cannot receive credit for both CIS 522 and CIS 622. 3(3-0), D

#### **CIS 626 Computer Security**

Prerequisite: MGT 340 or permission of a director of a COBA graduate program. Primarily, but not exclusively, designed for MBA students, CIS undergraduates, and IT Service Management undergraduates. The course is an introduction to the basic issues in computer security. This course is managerial in its approach in that the student is not required to have an extensive background in programming or technical support. May be taught concurrently with CIS 525. Cannot receive credit for both CIS 525 and CIS 626. 3(3-0), D

#### **CIS 628 Database Management Systems Implementation**

Prerequisite: CIS 326 or permission of a director of a COBA graduate program. 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. May be taught concurrently with CIS 528. Cannot receive credit for both CIS 528 and CIS 628. 3(3-0), F,S

#### **CIS 630 Training for End User Computing**

An analysis of the training function and its application to end user computing. Emphasis on selecting appropriate methods and media. May be taught concurrently with CIS 530. Cannot receive credit for both CIS 530 and CIS 630. 3(3-0), F

#### **CIS 641 Advanced Network Administration**

Prerequisite: CIS 330 or CSC 465 or permission of a director of a COBA graduate program. 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. May be taught concurrently with CIS 540. Cannot receive credit for both CIS 540 and CIS 641. 3(3-0), F,S

#### **CIS 651 Advanced Object-Oriented Systems**

Prerequisite: CIS 326 and CIS 350; or permission of a director of a COBA graduate program. 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. May be taught concurrently with CIS 550. Cannot receive credit for both CIS 550 and CIS 651. 3(3-0), F,S

#### **CIS 691 Information Systems Development**

Prerequisite: CIS 323 or CIS 334 or CIS 350 or CIS 375; and CIS 431 or CIS 528 or CIS 628; or permission of a director of a COBA graduate program. 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 be taught concurrently with CIS 591. Cannot receive credit for both CIS 591 and CIS 691. 3(3-0), F,S

#### **CIS 696 Problems in Business: Computer Information Systems**

Prerequisite: permission of a director of a COBA graduate program. 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. May be taught concurrently with CIS 596. Cannot receive credit for both CIS 596 and CIS 696. 1-3, D

#### **CIS 707 Practicum in Computer Information Systems**

Prerequisite: permission of department head. Work-study program with cooperating employers. Class and/or conference discussion of successes achieved and problems encountered by the student. On-the-job application of techniques, methods, procedures, and principles dealt with in other courses. 1-3, D

#### **CIS 720 Project Management in Information Systems**

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. 3(3-0), D

#### **CIS 725 Neural Networks**

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. 3(3-0), D

#### **CIS 732 Strategic IT Planning**

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-a-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. 3(3-0), D

#### **CIS 734 Staffing the Information Systems Function**

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. 3(3-0), D

#### **CIS 736 Data Communications and Information**

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. 3(3-0), D

#### **CIS 738 Information System Project Management**

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. 3(3-0), D

#### **CIS 740 Comparative Systems Development Methodology**

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. 3(3-0), D

#### **CIS 742 Management of End User Computing**

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. 3(3-0), D

#### **CIS 744 Information Systems Management**

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. 3(3-0), D

#### **CIS 746 Data Management**

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. 3(3-0), D

#### **CIS 747 IT Legal Issues**

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. 3(3-0), D

#### **CIS 748 Principles of Information Security**

Prerequisite: acceptance in the M.S. in CIS program. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. The students will learn a balance introduction to both security management and technical components of information security; they will be exposed to the spectrum of security activities, methods, methodologies, and procedures. This spectrum includes inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses and an overview of the information security planning functions. 3(3-0) D

#### **CIS 750 Sourcing and Procurement**

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. 3(3-0), D

#### **CIS 752 Behavior and Leadership in IT**

Prerequisite: acceptance in the M.S. in CIS program. This course is designed to provide an understanding and appreciation of organizational behavior issues facing senior and mid-level IT managers. Topics to be examined include: organizational behavior from an individual, group and structural perspective, organizational culture, leadership, perception and decision-making values and attitudes, and emotional intelligence. The material should be of interest and benefit to IT professionals, irrespective of technical specialty, who are currently in or aspire to IT management. 3(3-0) D

#### **CIS 754 Organizational Transformation**

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. 3(3-0), D

#### **CIS 756 Special Topics in Information Systems**

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. 3(3-0), D

#### **CIS 761 Management Information Systems**

Prerequisite: CIS 429 or CIS 600 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 761. 3(3-0), S

#### **CIS 790 Seminar in Management Information Systems**

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. 3(3-0), D

#### **CIS 794 Internship: Computer Information Systems**

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. 3(3-0), F,S

#### **CIS 796 Independent Study-Computer Information Systems**

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. 1-3, F,S

#### **CIS 797 Special Topics**

Prerequisite: permission. Study of topics in Computer Information Systems/Business Education. May be repeated to a total of 6 hours when topic varies. 1-3, D

#### **CIS 799 Thesis**

Prerequisite: permission of instructor. Independent research and study connected with the preparation of a thesis. 1-6, D



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## Department of Fashion and Interior Design

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### Faculty (as of July 15, 2011)

**Professor:** Michele Granger, Ed.D.

**Assistant Professors:** Sandra L. Bailey, M.S.; Jenifer J. Roberts, M.S.Ed.; Cathy L. Starr, Ph.D.

**Senior Instructors:** Nancy L. Asay, M.Ed.; Marciann Patton, M.Ed.

**Instructor:** Debra Agee, M.S.Ed.

**Emeritus Professors:** Edna Bell, Ph.D.; Carrie J. Ireland, Ph.D.; Thomas J. Kachel, M.S.; Jacquelyn Ledbetter, M.S.; Debra McDowell, Ed.D.; Joyce Waldron, Ed.D.

### Accreditation

Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Family and Consumer Sciences, B.S.Ed. and M.S.Ed.

### Mission Statement

The Department of Fashion and Interior Design provides education, scholarship, and service in the areas of human services and professional career education. Its vision centers on the study of housing and clothing as they relate to the physical, social, psychological, economic, aesthetic, and cultural perspectives of persons in the global community.

### Graduate Programs

The following graduate programs are available:

Secondary Education with option in Family and Consumer Sciences (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

### Majors

#### Fashion Merchandising and Design (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) 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 FMD courses to advance to the next level of coursework and to graduate from this program.
  1. Core Requirements (39 hours): FMD 101(2), 103(3), 201(3), 202(3), 203(3), 210(2), 301(3), 303(2), 304(3), 305(1), 306(3), 307(3), 403(2); MKT 350(3), 351(3)
  2. Complete one of the options:
    - a. **Fashion Design and Product Development (25 hours):** ART 115(3); FMD 270(3), 370(3), 371(3), 372(3), 402(4), 470(3), 570(3)
    - b. **Fashion Merchandising and Management (28 hours):** ACC 201(3); BUS 135(3); FMD 360(3); 361(3) or 362(3); 401(4), 460(3), 560(3); MGT 340(3); MKT 354(3)

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 [General Baccalaureate Degree Requirements](#) section of catalog

#### Interior Design (Comprehensive)

Bachelor of Science

**Admission Requirement:** MTH 135(3)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirement: MTH 135 or higher, PSY 121(3)
- B. Major Requirements



1. ART 100(3), 101(3); ACC 201(3); HID 140(3), 201(3), 202(3), 208(3), 240(3), 244(3), 303(3), 304(3), 325(1), 346(3), 405(3), 406(3), 408(3), 424(2), 441(2), 499(4); LAW 231(3); MKT 350(3); TCM 122(3), 221(3), 313(3), 320(3), 321(3), 322(3)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Family and Consumer Sciences

Bachelor of Science in Education  
(Certifiable grades Birth-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: PSY 121(3); CHM 105(5) or CHM 106(4); BIO 102(4) or 121(4) or BMS 110(4); SOC 150(3)
- B. Major Requirements: BMS 130(3) or 240(3); CFD 155(3), 160(3), 163(3), 250(3), 361(3); FCS 120(2), 301(3), 335(2), 373(3), 472(3), 507(1); HID 140(3); HRA 218(3), 321(3)
- C. Professional Education courses: FCS 493(6), 494(6), 512(3), 515(3) and see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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, added endorsement only):** Students who complete the Bachelor of Science in Education degree with a major in 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); BMS 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 Family and Consumer Sciences

Bachelor of Arts

Select 15 hours from: BMS 130(3); CFD 160(3), 163(3); FCS 301(3); HID 140(3); HRA 218(3), 321(3)

#### General Family and Consumer Sciences

Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)

Select 24 hours from: BMS 130(3); CFD 163(3); FCS 301(3); HID 140(3); HRA 218(3), 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), 340(3), 343(3), 344(3), 346(3), 441(3); FCS 302(1-3), 502(1-3); FMD 202(3)

### Family and Consumer Sciences Courses

#### FCS 120 Family Health

Current trends in family health care and home nursing care; practice in the laboratory. Supplemental course fee. 2(1-2) F

#### FCS 197 Introductory Topics in Family and Consumer Sciences

Variable content course for introductory concepts in Family and Consumer Sciences. May be repeated to a total of 6 hours when topics change. 1-3 D

#### FCS 299 Work Experience

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. 2(0-4) F,S

#### FCS 300 Special Topics in Family and Consumer Sciences

Selected topics of contemporary interest in Family and Consumer Sciences, offered when resources and demand allow. May be repeated to a total of 6 hours when topics change. Variable Content Course. 1-3 D

#### FCS 301 Textiles, Apparel, and Fashion

Textiles and apparel course for teachers of Family the Consumer Sciences. Study of textiles used in apparel, selection and care of apparel, apparel construction techniques, and cultural, aesthetic, historical, legal and environmental aspects of textiles, apparel and fashion. 3(1-4) S



**FCS 302 Family and Consumer Sciences Study Tour**

Study of mills, factories, stores, hospitals, laboratories, hospitality facilities, museums, design studios, historic sites, and/or trade markets, and not-for-profit agencies. 1-4 D

**FCS 303 Service Learning in Family and Consumer Sciences**

Prerequisite: 30 hours and concurrent registration in a designated service learning offering within one of the major areas of study in Family and Consumer Sciences. 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 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. 1 F,S

**FCS 335 Presentation Techniques**

Prerequisite: COM 115 and 60 hours. 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. 2(1-2) S

**FCS 373 Family Economics**

Recommended Prerequisite: ECO 155. Family as a consumer unit, its financial well-being and interrelationship with the market and the economy. 3(3-0) F,S

**FCS 400 Problems in Family and Consumer Sciences**

Independent study for those who wish additional work in specific subject areas. 1-3 D

**FCS 472 Resource Management Theory and Practicum**

Prerequisite: CFD 163 and FCS 373. Study of family and individual resource management concepts and application of resource management principles and techniques with emphasis on group dynamics and problem solving. 3(2-2) F

**FCS 477 Seminar in Home Management and Family Economics**

Prerequisite: senior standing and major in Family and Consumer Science BSED program. Readings, discussion and analysis of trends and developments in home management and family economics. 2(0-2) S

**FCS 493 Supervised Teaching (Family and Consumer Sciences)**

Prerequisite: completion of all methods courses in Family and Consumer Sciences; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches family and consumer sciences 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

**FCS 494 Supervised Teaching (Family and Consumer Sciences)**

Prerequisite: concurrent enrollment in FCS 493. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

**FCS 498 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses and; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**FCS 499 Internship in Family and Consumer Sciences**

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 family and consumer sciences. 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. 1-6 D

**FCS 500 Issues in Family and Consumer Sciences**

Prerequisite: senior standing. Advanced inquiry into specialized areas of study in Family and Consumer Sciences 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. May be taught concurrently with FCS 600. Cannot receive credit for both FCS 600 and FCS 500. 1-3 D

**FCS 502 Study Tour**

Prerequisite: junior or senior standing. Study of and/or visits to mills, factories, stores, museums, hospitals, laboratories, design studios and/or trade markets. Supplemental course fee (variable by section). May be taught concurrently with FCS 602. Cannot receive credit for both FCS 602 and FCS 502. 1-3 D

### **FCS 507 Student Organizations in Family and Consumer Sciences**

Prerequisite: FCS 335; and concurrent enrollment in FCS 512. Methods of organizing student groups in Family and Consumer Sciences programs, techniques of working with students in individual and group projects; leadership training. May be taught concurrently with FCS 607. Cannot receive credit for both FCS 607 and FCS 507. 1(1-0) F

### **FCS 512 Teaching Family and Consumer Sciences**

Prerequisite: FCS 335; and concurrent enrollment in FCS 507; 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. May be taught concurrently with FCS 612. Cannot receive credit for both FCS 612 and FCS 512. 3(2-2) F

### **FCS 515 Organization of Family and Consumer Sciences Programs**

Prerequisite: FCS 507 and FCS 512; and admitted to teacher education program. Investigation of the organization and administration of family and consumer sciences programs; identification of types of programs; program planning, program evaluation and career counseling with emphasis on critical thinking and reflective decision-making. Credited only on B.S. in Education (Family and Consumer Sciences). A grade of "C" or better is required in this course. May not be taken Pass/Not Pass. May be taught concurrently with FCS 615. Cannot receive credit for both FCS 615 and FCS 515. 3(2-2) S

### **FCS 600 Issues in Family and Consumer Sciences**

Advanced inquiry into specialized areas of study in Family and Consumer Sciences 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. May be taught concurrently with FCS 500. Cannot receive credit for both FCS 500 and FCS 600. 1-3, D

### **FCS 602 Study Tour**

Study of and/or visits to mills, factories, stores, museums, hospitals, laboratories, design studios and/or trade markets. Supplemental course fee (variable by section). May be taught concurrently with FCS 502. Cannot receive credit for both FCS 502 and FCS 602. 1-3, D

### **FCS 607 Student Organizations in Family and Consumer Sciences**

Prerequisite: concurrent enrollment in FCS 612. Methods of organizing student groups in Family and Consumer Sciences programs, techniques of working with students in individual and group projects; leadership training. May be taught concurrently with FCS 507. Cannot receive credit for both FCS 507 and FCS 607. 1(1-0) F

### **FCS 612 Teaching Family and Consumer Sciences**

Prerequisite: concurrent enrollment in FCS 607. 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. A grade of "C" or better is required in this course. May be taught concurrently with FCS 512. Cannot receive credit for both FCS 512 and FCS 612. 3(2-2) F

### **FCS 615 Organization of Family and Consumer Sciences Programs**

Prerequisite: FCS 607 and FCS 612. Investigation of the organization and administration of family and consumer sciences programs; identification of types of programs; program planning, program evaluation and career counseling with emphasis on critical thinking and reflective decision-making. A grade of "C" or better is required in this course. May be taught concurrently with FCS 515. Cannot receive credit for both FCS 515 and FCS 615. 3(2-2) S

### **FCS 701 Supervision of Student Teachers in Family and Consumer Sciences**

Prerequisite: teaching experience in Family and Consumer Sciences; and permission. Experiences in creating an environment that will encourage Family and Consumer Sciences student teachers to realize their potentials and gain competence in teaching. 3 (3-0), D

### **FCS 795 Advanced Technical Practice**

Prerequisite: permission. Work in CAD, EDI, Child Life, mental health, hospitality, clinical hospitals, schools, manufacturing, retailing, and/or other settings. Ninety clock hours required. 3, D

### **FCS 796 Practicum**

Prerequisite: permission. The assumption of responsibilities at an approved practicum site under the direction of a professor and practicum site supervisor. 4(0-8), D

## **Fashion Merchandising and Design Courses**

### **FMD 101 Introduction to Fashion**

Overview of the global fashion industry. Career options in fashion merchandising, product development and design are highlighted. 2(2-0) F

### **FMD 103 Introduction to Fashion Construction**

Basic understanding of industry construction techniques, terminology and applications of knit and woven fabrics. 3(1-4) F,S

### **FMD 201 History of Fashion**

Prerequisite: FMD 101 with grade of C or better. The study of fashion evolution from B.C. to current fashion and how the influences of social, economic, political, technological and global cultures impact garments and accessories. 3(3-0) F,S

**FMD 202 Fashion Textiles**

Prerequisite: FMD 101 with grade of C or better or concurrent enrollment. Study of fibers, yarns and fabrics. Industry applications and end usage are examined. 3(3-0) F,S

**FMD 203 Kaledo for the Fashion Industry**

Prerequisite: FMD 101 with grade of C grade or better; and CSC 201. Introduction to the principles and techniques of computer aided design used in the fashion industry. 3(2-2) F

**FMD 210 Computer Applications in the Fashion Industry**

Prerequisite: FMD 101 or concurrent enrollment. A study of software tools commonly used in the fashion industry. Focus is on the use of spreadsheet, presentation, word processing, publishing, and image processing software. 2(1-2) F,S

**FMD 270 Advanced Fashion Construction**

Prerequisite: FMD 103 with C grade or better. Advanced construction techniques utilizing a variety of merchandise classifications including menswear, intimates, children's wear, and sportswear. 3(1-4) S

**FMD 300 Special Topics in Fashion Merchandising and Design**

Selected topics of contemporary interest in fashion merchandising and design. Offered when resources and demand allow. May be repeated for a total of 6 hours when topics change. Variable Content Course. 1-3 D

**FMD 301 Introduction to Product Development**

Prerequisite: FMD 101 with grade of C or better; and CSC 201. Examination of product development through core concepts, trends, color, and elements of design. 3(3-0) S

**FMD 302 Fashion Merchandising and Design Study Tour**

Study of and visits to museums, design studios, historic sites, trade shows, conferences, and conventions related to the fashion industry. May be repeated to a total of 6 hours. 1-3 D

**FMD 303 Evaluation of Product Quality**

Prerequisite: FMD 202 with a grade of C or better. The analysis of Product Development quality through element identification, stitch and seam classification, grading, fit, specifications and performance evaluation. May be taken concurrently with FMD 301. 2(2-0) S

**FMD 304 Application of Product Development**

Prerequisite: FMD 103 and FMD 202 and FMD 301 and FMD 303 with grades of C or better. The development of multiple collections for a new company from consumer to retail buyer or consumer. Research includes target market, seasonal changes, color, fabric selection, costing, specification sheets, labeling, packaging, and line/trend boards. May be taken concurrently with FMD 201. 3(3-0) F

**FMD 305 Pre-Internship Seminar**

Prerequisite: FMD 101 with grade of C or better; and FMD 301 and CSC 201. Sourcing and acquisition of an internship are examined. Includes resume writing, phone, email and correspondence etiquette, and interview skills. 1(1-0) F

**FMD 306 Merchandising Mathematics**

Prerequisite: FMD 301 with grade of C or better; and General Education mathematics requirement. Basic retail and buying formulas are examined for the purpose of understanding six month merchandising plans and open-to-buy calculations. Case studies include vender relations and negotiation strategies. 3(3-0) F

**FMD 307 Advanced Computer Imagery**

Prerequisite: CSC 201 with grade of C or better. Learn how to use current industry software, such as Photoshop, Illustrator, and related programs for fashion presentations and portfolio work. 3(2-2) F

**FMD 360 Visual Merchandising**

Prerequisite: FMD 301 with grade of C or better. Application of principles of visual merchandising through hands-on experience with visual placement, display focal points and background lighting for store displays. From a visual perspective students will explore media through internet, print and branding. 3(2-2) F,S

**FMD 361 Fashion Show Production**

Prerequisite: FMD 301 and FMD 304 with grades of C or better; and junior standing. Production of a runway fashion show from a zero line budget; showcasing original study designs and hands-on experience in fundraising, modeling, garment selection, staging, and public relations. May be repeated up to 6 hours with permission. Supplemental course fee. 3(2-2) S

**FMD 362 Fashion Promotion**

Prerequisite: FMD 301 with grade of C or better; FMD 304 with grade of C or better or concurrent enrollment. An experiential based fashion course providing opportunities to develop various forms of productions for university and community promotions. May be repeated for a total of 6 hours. 3(2-2) F

**FMD 370 Flat Pattern**

Prerequisite: FMD 270 with grade of C or better. Fundamental concepts of drafting for the basic female form and pattern manipulation techniques to develop original garments. Supplemental course fee. 3(2-2) F

**FMD 371 Draping**

Prerequisite: FMD 370 with C grade or better. Fundamental concepts for developing original designs by using draping techniques. Full size dress forms are used for creation of basic sloper and original designs in knits and wovens. Supplemental course fee. 3(2-

2) S

**FMD 372 Fashion Illustration**

Prerequisite: FMD 371 with grade of C grade or better or junior standing. Creation of fashion flats and specification sheets. Students focus on the technical ability to translate a creative idea into a working blueprint. Outcomes include the portfolio for their senior collection. Supplemental course fee. 3(2-2) F

**FMD 400 Problems in Fashion Merchandising and Design**

Independent study for those who wish additional work in specific subject areas. May be repeated to a total of 6 hours. 1-3 D

**FMD 401 Internship in Fashion Merchandising**

Prerequisite: FMD 305 and FMD 306 with grades of C or better; and permission. Supervised experienced in a pre-approved internship program in a related field of Product Development or Merchandising. The student must work a minimum of 280 hours, complete the student workbook, earn a satisfactory evaluation from the internship sponsor and complete a journal. 4(0-8) Su,D

**FMD 402 Internship in Fashion Design**

Prerequisite: FMD 305 and FMD 306 and FMD 370 and FMD 371 with grades of C or better; and permission. Supervised experience in a pre-approved internship program in a related field of Product Development or Design. The student must work a minimum of 280 hours, complete the student workbook, earn a satisfactory evaluation from the internship sponsor and complete a journal. 4(0-8) Su,D

**FMD 403 Post-Internship**

Prerequisite: FMD 401 or FMD 402 with grade of C or better or concurrent enrollment. Objectives include the preparation and review of the electronic and visual portfolio, updating of resume and cover letter for job placement and a review of interview and business etiquette along with personal budgeting. 2(2-0) F,D

**FMD 460 Fashion Merchandise Planning**

Prerequisite: FMD 306 with grade of C or better. Advanced merchandise mathematics. Apply six month merchandise plan and OTB formulas through a simulated buying experience including store planning, merchandising and marketing. 3(3-0) S

**FMD 470 Design Challenges**

Prerequisite: FMD 371 with grade of C or better. Creation of garments using advanced flat pattern and draping techniques for a variety of merchandise classifications (menswear, children's wear, sportswear, and intimates) includes fitting and grading apparel. 3(2-2) F

**FMD 560 Entrepreneurship**

Prerequisite: FMD 460 with grade of C or better or concurrent enrollment. Developing a fashion business plan from concept to store opening including: target market, location, merchandising classification, human resources, cash flow sheets, profit and loss, store design, assortment planning, marketing strategies and funding. Completed business plan is critiqued by a financial industry professional A grade of C or better is required for graduation. May be taught concurrently with FMD 660. Cannot receive credit for both FMD 560 and FMD 660. 3(3-0) S

**FMD 570 Senior Collection**

Prerequisite: FMD 372 and FMD 470 with grades of C or better. Complete a fashion collection to be critiqued and juried by fashion industry professionals for a spring fashion show. A grade of C or better is required for graduation. May be taught concurrently with FMD 670. Cannot receive credit for both FMD 570 and FMD 670. Supplemental course fee. 3(1-4) S

**FMD 660 Entrepreneurship**

Developing a fashion business plan from concept to store opening including: target market, location, merchandising classification, human resources, cash flow sheets, profit and loss, store design, assortment planning, marketing strategies and funding. Completed business plan is critiqued by a financial industry professional A grade of C or better is required for graduation. May be taught concurrently with FMD 560. Cannot receive credit for both FMD 660 and FMD 560. 3(3-0) S

**FMD 670 Senior Collection**

Complete a fashion collection to be critiqued and juried by fashion industry professionals for the spring fashion show. A grade of "C" or better is required for graduation. Supplemental course fee. May be taught concurrently with FMD 570. Cannot receive credit for both FMD 670 and FMD 570. 3(1-4) S

**FMD 682 Graduate Seminar in Fashion Merchandising and Design**

Prerequisite: 12 hours of graduate credit. 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. 2(2-0), S

## Housing and Interior Design Courses

**HID 140 Fundamentals of Design and Interiors**

Art principles and elements applied to interior environments. Projects will expose the student to interior design skills, basic drafting techniques, design terminology, space planning, materials and applications. Interior design as a profession will be discussed. 3(2-2) F,S

**HID 145 Introduction to Housing**

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. 2(2-0) S

**HID 201 Studio I**

Prerequisite: HID 140. Space planning and design for both residential design and commercial design. This course will cover interior design specifications, material, and green design. 3(0-6) F

**HID 202 Studio II**

Prerequisite: HID 140 and HID 201 and HID 208. Residential design projects with emphasis on color and light, presentation techniques as well as universal design. 3(0-6) S

**HID 208 CAD for Interior Design**

Prerequisite: HID 140. An overview of AutoCAD, SketchUp, and other relevant software. Both 2- and 3- dimensional aspects are covered in order to design a structure. Design project required. 3(2-2) F,S

**HID 241 Residential Design I**

Prerequisite: HID 140 or concurrent enrollment. The design of a residence including the drawing of floor plans and the study of both structural and decorative aspects. 3(2-2) F,S

**HID 300 Special Topics in Housing and Interior Design**

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. 1-3 D

**HID 302 Housing and Interior Design Study Tour**

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. 1-3 D

**HID 303 Studio III**

Prerequisite: HID 202. Kitchen and bath designs and materials, preparing for the National Kitchen and Bath Association certification. Addresses kitchen and bath systems, products, and planning. Also, drawing, design principles, project and business management for kitchen and bath. 3(0-6) F

**HID 304 Studio IV**

Prerequisite: HID 303. Hotel, restaurant and healthcare design. The interior design of lounges and public dining facilities, guest lodging facilities from urban hotels to resorts, hospital and healthcare interior design using codes and universal design principles. 3(0-6) S

**HID 325 Pre-Internship Seminar**

Prerequisite: HID 303. Sourcing and acquisition of an internship are examined. Includes resume writing, phone, email and correspondence etiquette, and interview skills. 1(1-0) F

**HID 340 Sustainable Design**

Examines sustainable design and building practices employed in residential and commercial structures. 3(3-0) D

**HID 343 Retail Design and Display**

Prerequisite: HID 140. 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. 3(2-2) F,S

**HID 344 Historical Design Pre 19th Century**

Ancient, Medieval, and Renaissance art, furnishings, and decorative design with emphasis on historical relevance for the 21st century. 3(3-0) S

**HID 346 Historical Design: 19th - 21st Century**

An overview of interiors, furnishings, and related structure design during the 19th - 21st century with emphasis on historical relevancy for the 21st century. 3(3-0) D

**HID 400 Problems in Housing and Interior Design**

Independent study for those who wish additional work in specific subject areas. 1-3 D

**HID 405 Studio V**

Prerequisite: HID 304. Retail design and display and presentation techniques design from store planning to merchandise display. 3(0-6) F

**HID 406 Studio VI**

Prerequisite: HID 405. Advanced presentation techniques, digital portfolio and models. 3(0-6) S

**HID 408 Computer Applications for Interior Design**

Prerequisite: HID 208. Various computer programs with an emphasis on presentation and portfolios. 3(0-6) S

**HID 424 Business Practices and Senior Show**

Prerequisite: HID 405 and LAW 231 and ACC 201. Business principles and practices of interior design and Senior Show. 2(2-0) S

**HID 441 National Council of Interior Design Qualifications (NCIDQ)**

Prerequisite: HID 405. Study of NCIDQ written and practical exams. 2(1-2) S

**HID 499 Internship in Interior Design**

Prerequisite: HID 303 and HID 325. Off-campus, supervised experiences in a cooperative program with a kitchen and bath and/or interior design firm. The student is required to attend a beginning orientation, maintain weekly journals, communication with their faculty advisor 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 hour internship and a minimum of 270 hours for a 6 credit hour internship. 4-6 D

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Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
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## Department of Finance and General Business

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Email: [FinanceandGeneralBus@missouristate.edu](mailto:FinanceandGeneralBus@missouristate.edu)  
Website: <http://www.missouristate.edu/fgb>  
Department Head: Professor Kent P. Ragan, Ph.D., CFA

### Faculty (as of July 15, 2011)

**Distinguished Professor:** Carol J. Miller, M.B.A., J.D.

**Professors:** Wayne L. Anderson, M.B.A., J.D.; C. Edward Chang, Ph.D.

**Associate Professors:** Stanley R. Adamson, Ph.D., ARM; Susan J. Crain, Ph.D.; Stanley A. Leasure, CPA (inactive), J.D.; James D. Philpot, Ph.D.; Walt A. Nelson, Ph.D.

**Assistant Professors:** K. Stephen Haggard, Ph.D.; James R. Scott, Ph.D.; H. Douglas Witte, Ph.D.; Y. Jenny Zhang, Ph.D.

**Instructors:** Nancy J. Allen, J.D.; James M. Simmerman, M.B.A.

**Emeritus Professors:** John E. Adamson, M.B.A., J.D.; Vencil J. Bixler, Ph.D., CLU, ChFC; John S. Bowdidge, Ph.D.; Ivan D. Calton, Ed.D.; F. Joel Chaney, D.B.A.; Frank L. Clark, Ph.D.; Kee S. Kim, Ph.D.; John K. Litvan, Ph.D.; Ralph K. Manley, M.B.A.; Robert W. Owens, Ph.D.; John E. Patton, CLU, CPIM, M.S. in Ed.; James B. Pettijohn, Ph.D.; George S. Swales, Jr., Ph.D.

### Accreditation

AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Graduate Programs

The following graduate programs are available:

Master of Business Administration degree administered by the College of Business Administration.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Business Administration Degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Business Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MBA graduation requirement, students exercising the accelerated MBA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

**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 Risk Management and Insurance. Help in preparing for the early actuarial exams is available through the mathematics department. Contact the Finance and General Business Department or the Mathematics Department for more information.

**Internships:** With permission, majors in the Finance and General Business Department may receive a total of one to three credit hours for approved internship experiences(s) in their major area (general business, finance, financial planning, real estate, and/or insurance.) The department's internship course is listed in the catalog as BUS 494, Internship. The schedule of classes, and thus student transcripts, will indicate the academic discipline appropriate for the particular internship experience.

### Majors

#### Finance (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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 (32-33 hours)

1. FIN 384(3), 390(3), 485(3); INS 211(3); LAW 335(2) or 532(3)
2. Complete one of the following options:
  - a. **Finance:**
    1. FIN 266, 386(3)\*, 487(3)
    2. Complete one of the following: FIN 480(3), 484(3), 599(3)
    3. Complete six additional hours from the following: FIN 381(3), 480(3), 484(3), 496(1-2), 582(3), 595(3), 599(3)  
Recommended electives (not required): ACC 321(3), 524(3); BUS 307(2), BUS/LAW 550(3); INS 312(3); FIN 367(3), 369(3), FIN/INS 538(3); ECO 365(3), 385(3), 586(3)  
\* Students who have completed both ACC 301 and 302 may waive FIN 386.
  - b. **Financial Planning:**
    1. ACC 321(3)
    2. FIN 381(3), FIN/INS 538(3), 581(3); INS 312(3), 314(3)  
Recommended electives (not required): ACC 524(3), 525(3); BUS/LAW 550(3); COM 326(3); FIN 266(3), 487(3); INS 313(3); LAW 332(1)
  - c. **Real Estate:**
    1. FIN 266(3), 367(3), FIN/LAW 368(3), FIN 369(3)
    2. Complete six additional hours from the following: AGB 354(2); BUS/LAW 550(3); ECO 450(3); GRY 322(3); INS 313(3); PLN 271(3), 571(3); TCM 121(3), 122(3), 221(3), 320(3).  
Recommended electives (not required): AGP 333(3); HID 140(3), 241(3); MKT 352(3),
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **General Business (Comprehensive)**

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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 (32-33 hours)
  1. INS 211(3); LAW 335(2) or 532(3)
  2. Complete one of the following: ENG 321(3); JRN 270(3); MGT 397(3)
  3. Complete a minimum of 24 hours from at least five of the following areas:
    - a. Accounting: ACC 301(3), 302(3), 311(3), 321(3), 513(3), 524(3), 532(3)
    - b. Business Relationships: BUS/LAW 550(3); LAW 341(3); MGT 486(3)
    - c. Computer Information Systems: CIS 205(3), 260(3), 270(3), 290(3); 370(3) or 510(3); 375(3)
    - d. Finance: BUS 510(3); FIN 381(3), 384(3), 386(3), 390(3), 485(3)
    - e. International: FIN 582(3); LAW 539(3); MGT 447(3); MKT 474(3)
    - f. Management: LAW 531(3); MGT 345(3), 561(3); TCM 359(3)
    - g. Marketing: MKT 351(3), 352(3), 354(3), 355(3), 430(3), 510(3)
    - h. Real Estate: FIN 266(3), 367(3), FIN/LAW 368(3), FIN 369(3)
    - i. Risk Management and Insurance: FIN/INS 538(3); INS 312(3), 313(3), 314(3), 415(3); LAW 537(3)  
Recommended electives (not required): AGB 354(2); BUS 303(2), 307(2); ECO 305(3), 586(3); GRY 321(3); PSY 359(3), 525(3); SOC 150(3), 309(3)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Risk Management and Insurance (Comprehensive)**

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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. FIN 266(3), 384(3), 390(3), 485(3); INS 211(3), 312(3), 313(3), 415(3); LAW 335(2) or 532(3)
  2. Complete five additional hours from the following: ACC 321(3); BUS/LAW 550(3); FIN 367(3), 381(3), FIN/INS 538(3); INS 314(3), 397(1-6)\*  
\* Students may not apply more than two hours of INS 397 toward the five hour requirement.
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Minors**

#### **Finance**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. FIN 380(3), 384(3), 485(3)
- B. Complete six additional hours from the following: FIN 381(3), 386(3)\*, 390(3), 480(3), 484(3), 487(3), 582(3)



*\*Students who have completed both ACC 301 and ACC 302 may waive FIN 386.*

### **Financial Planning**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. ACC 321(3); FIN 381(3), 485(3), FIN/INS 538(3); INS 314(3)

### **General Business**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. ACC 201(3)\*, 211(3)\*; BUS 135(3); CIS/CSC 101(2)\*\*; CIS 201(2); LAW 231(3)  
B. Complete six additional hours from the following: BUS/LAW 550(3); FIN 266(3), 380(3); INS 211(3), LAW 332(1), 335(2), 531(3); MGT 286(3), 320(3), 340(3), 341(3), 486(3); MKT 150(3), 350(3), 355(3); QBA 237(3)

\* ACC 206(4) may substitute for ACC 201 and 211.

\*\*May be waived by proficiency exam.

### **Legal Studies in Business**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. LAW 231(3), 332(1); 335(2) or 532(3); 341(3)  
B. Complete 12 additional hours from the following which must include a minimum of 6 hours from Group 1 and 3 hours from Group 2:  
1. Group 1 (COBA courses): ACC 321(3), 524(3); BUS/LAW 550(3); FIN/LAW 368(3); FIN/INS 538(3); FIN 596(1-3); INS 211(3), 314(3); LAW 531(3), 537(3), 539(3)  
2. Group 2 (Non-COBA courses): AGB 314(3); PHI 340(3); PLS 419(3), 515(3), 517(3); PSY 320(3); SFR 581(2)

### **Risk Management and Insurance**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. BUS 135(3) or FIN 150(3); INS 211(3), 312(3), 313(3)  
B. Complete six additional hours from the following: BUS/LAW 550(3); FIN 266(3), 381(3), 485(3), FIN/INS 538(3); INS 314(3), 397(1-6), 415(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.

### **Real Estate**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. FIN 266(3), 367(3), FIN/LAW 368(3), 369(3)  
B. Complete six additional hours from the following: AGB 354(2); AGP 333(3); BUS/LAW 550(3); ECO 450(3); GRY 322(3); HID 140(3), 241(3); INS 211(3) or 313(3); MKT 352(3); PLN 271(3), 571(3); TCM 121(3), 122(3), 221(3), 320(3)

## **Business Courses**

### **BUS 135 Introduction to Business**

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. 3(3-0) F,S

### **BUS 200 Topics in Business**

A variable content course with topics that can change from semester to semester. Topics are identified by title in the class schedule. 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. 1-3 D

### **BUS 303 History of Business**

Prerequisite: undergraduate business majors must be admitted to COBA. History of business; contributions of individuals and companies in evolution of modern business principles and practices. 2(2-0) D

### **BUS 305 Service Learning in Business**

Prerequisite: 30 hours and concurrent registration in a Finance and General Business department 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 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. 1 F,S

#### **BUS 307 Business in the Community**

Prerequisite: undergraduate business majors must be admitted to COBA. 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 BUS 305 Service Learning option and be repeated to a total of 6 hours. 2 D

#### **BUS 394 Cooperative Education in Business**

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 hours in Cooperative Education. 1-3 D

#### **BUS 397 Topics in Business**

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. 1-3 D

#### **BUS 494 Internship**

Prerequisite: 80 hours; academic preparation in the field of internship; permission of department head; and undergraduate business majors must be admitted to COBA. A variable content course. Internships to be identified by title in the schedule of classes include Finance, Financial Planning, General Business, Insurance, and Real Estate. Opportunity to obtain practical understanding through work experience with a cooperating business or financial institution, financial planning firm, 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 3 hours. 1-3 F,S

#### **BUS 510 E-Business and Online Entrepreneurship**

Prerequisite: 54 hours; and undergraduate business majors must be admitted to COBA. A study of e-business and online entrepreneurship from an applied, best practices point of view. Classroom visits by online entrepreneurs provide unique, real-world insights into the advantages, disadvantages, and challenges of doing business over the Internet. May be taught concurrently with BUS 610. Cannot receive credit for both BUS 510 and BUS 610. 3(3-0) F

#### **BUS 550 Negotiation, Mediation, and Arbitration in Business**

Prerequisite: 60 hours; and undergraduate business majors must be admitted to COBA. A practical, skills-based study of negotiation, mediation, and arbitration from the business manager's perspective. This hands-on course is designed to develop the skills necessary to enable the business manager to effectively participate in negotiation, mediation, and arbitration as alternatives to litigation for resolving business disputes. Identical with LAW 550. May be taught concurrently with BUS 650. Cannot receive credit for more than one of BUS 550, BUS 650, LAW 550, or LAW 650. 3(3-0) F,S

#### **BUS 610 E-Business and Online Entrepreneurship**

A study of e-business and online entrepreneurship from an applied, best practices point of view. Classroom visits by online entrepreneurs provide unique, real-world insights into the advantages, disadvantages, and challenges of doing business over the Internet. May be taught concurrently with BUS 510. Cannot receive credit for both BUS 610 and BUS 510. 3(3-0) F

#### **BUS 650 Negotiation, Mediation, and Arbitration in Business**

A practical, skills-based study of negotiation, mediation, and arbitration from the business manager's perspective. This hands-on course is designed to develop the skills necessary to enable the business manager to effectively participate in negotiation, mediation, and arbitration as alternatives to litigation for resolving business disputes. Identical with LAW 650. May be taught concurrently with BUS 550. Cannot receive credit for more than one of BUS 550, BUS 650, LAW 550, or LAW 650. 3(3-0) F,S

## **Finance Courses**

#### **FIN 150 Personal Finance**

A study of personal finance topics from the consumer and societal perspectives. Topics include the preparation and interpretation of personal financial statements and budgets, the time value of money, personal saving, financial market and investment fundamentals, the effective use of consumer credit, personal bankruptcy, insurance principles, automotive and housing decisions, principles of personal taxation, and retirement planning. This course will provide students with the concepts and critical thinking skills to understand the effects of financial decisions on individuals, families, and society. 3(3-0) F,S

#### **FIN 266 Principles of Real Estate**

Prerequisite: 24 hours. 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. 3(3-0) F,S

#### **FIN 310 Fundraising Principles and Practices for Nonprofit Agencies**

Prerequisite: undergraduate business majors must be admitted to COBA. Comprehensive study of various funding sources for not-for-profit organizations. Explores relationships with umbrella organizations, techniques of fundraising, government funding, grantsmanship, budget control and accountability. 3(3-0) D

#### **FIN 350 Entrepreneurial Finance**

Prerequisite: ACC 201. This course introduces the non-business major to the finance function within the small business. Topics

include financial statement analysis, financial planning and forecasting, asset valuation, the time value of money, capital budgeting, cost of capital, working capital, break-even, leverage, business plans, and venture capital. This course may not be used to satisfy any requirements for a COBA major. Students may not receive credit for both FIN 350 and FIN 380. 3(3-0) F

**FIN 367 Principles of Real Estate Appraisal**

Prerequisite: FIN 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. 3(3-0) F

**FIN 368 Real Estate Law**

Prerequisite: FIN 266; and 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. Identical with LAW 368. Cannot receive credit for both FIN 368 and LAW 368. 3(3-0) S

**FIN 369 Real Estate Development**

Prerequisite: FIN 266; 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. 3(3-0) S

**FIN 380 Financial Management**

Prerequisite: 54 hours including ACC 201 and ACC 211 and ECO 155 and ECO 165; and QBA 237 or equivalent; and undergraduate business majors must be admitted to COBA. An introduction to topics in corporate financial management, including financial markets, time value of money, asset valuation, risk and return, financial analysis and forecasting, capital budgeting, sources, and costs of capital. 3(3-0) F,S

**FIN 381 Personal Financial Planning**

Prerequisite: 54 hours; undergraduate business majors must be admitted to COBA. A course designed to introduce students to most of the major personal financial planning problems that individuals and families encounter. Emphasis is placed on the financial planner's activities to assist individuals and families in creating personal financial statements and household budgets, developing effective money management practices, and addressing taxation, housing, credit, insurance, investment, estate planning and other important finance issues. 3(3-0) F,S

**FIN 384 Financial Markets and Intermediaries**

Prerequisite: ACC 201 and ACC 211 and ECO 155 and ECO 165; undergraduate business majors must be admitted to COBA. An overview of the organization and operation of major financial markets including money, bond, mortgage, equity, derivative, and international markets, and financial intermediaries including lenders, insurance companies, pension funds, investment banks, investment companies, and real estate investment trusts. 3(3-0) F,S

**FIN 386 Financial Analysis**

Prerequisite: grade of B- or better in FIN 380; and undergraduate business majors must be admitted to COBA. An introduction to the study of financial analysis, including a critical examination of the strengths and weaknesses of current financial reporting. 3(3-0) F,S

**FIN 390 Intermediate Financial Management**

Prerequisite: grade of B- or better in FIN 380; and 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. 3(3-0) F,S

**FIN 480 Financial Decision Making**

Prerequisite: FIN 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. 3(3-0) F,S

**FIN 484 Management of Banking**

Prerequisite: grade of B- or better in FIN 380; and either FIN 384 or ECO 305; and 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. 3(3-0) S

**FIN 485 Investments I**

Prerequisite: grade of B- or better in FIN 380; and undergraduate business majors must be admitted to COBA. A survey of investment principles, investment environments, security valuation, and financial markets. 3(3-0) F,S

**FIN 487 Investments II**

Prerequisite: FIN 485; and undergraduate business majors must be admitted to COBA. An extension of Investments I, including an in-depth study of security analysis, investment strategy, portfolio theory, risk analysis, and management. Hedging and speculating with domestic and international securities will also be explore. 3(3-0) F,S

**FIN 496 Readings in Finance**

Prerequisite: permission of department head; and undergraduate business majors must be admitted to COBA. Planned readings designed to intensify and supplement the area of finance. 1-2 D

**FIN 538 Introduction to Estate Planning**

Prerequisite: 80 hours; and 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. Identical with INS 538. May be taught concurrently with FIN 638. Cannot receive credit for more than one of FIN 538, FIN 638, INS 538, or INS 638. 3(3-0) F

#### **FIN 581 Professional Financial Planning**

Prerequisite: ACC 321 and FIN 381 and FIN 485 and INS 211 and LAW 231; and INS 314 or concurrent enrollment; and FIN 538 or concurrent enrollment; and undergraduate students must be admitted to COBA. A case-oriented study of comprehensive financial planning for client families. This course integrates prior knowledge of financial planning principles and practice, investments, insurance, law, tax planning, retirement planning, and estate planning. Advanced topics in these subjects are also presented. The financial planning process, standards of professional practice, and planner ethics are emphasized. May be taught concurrently with FIN 681. Cannot receive credit for both FIN 581 and FIN 681. 3(3-0) S

#### **FIN 582 International Financial Management**

Prerequisite: grade of B- or better in FIN 380; and 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. May be taught concurrently with FIN 682. Cannot receive credit for both FIN 582 and FIN 682. 3(3-0) F,S

#### **FIN 595 Financial Markets Study Tour**

Prerequisite: FIN 384 and FIN 485; a combined (Missouri State and transfer) GPA of 3.40 or higher; recommendation of a finance faculty member; permission of department head; and undergraduate business majors must be admitted to COBA. The course consists of three parts: 1. Background research and discussion of selected companies and institutions of one or more major financial center(s) (e.g. New York, Chicago, and/or London) and the economic, political, international, historical, social, ethical, and cultural environment in which they function. 2. A visit of approximately seven days' duration to the financial center(s) to visit selected companies, financial markets, and cultural icons. 3. A final written project and group discussion of the experience. The course involves extensive research, written and oral reporting, and group interaction based upon trust, respect and integrity. May be taught concurrently with FIN 695. Cannot receive credit for both FIN 595 and FIN 695. 3(3-0) D

#### **FIN 596 Research Issues and Problems: Finance**

Prerequisite: 60 hours; and permission of department head; and 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 taught concurrently with FIN 697. Cannot receive credit for more than 6 hours of FIN 596 and FIN 697 combined. 1-3 D

#### **FIN 599 Directed Study for CFA Level I Exam**

Prerequisite: permission of instructor; and undergraduate business majors must be admitted to COBA. 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. May be taught concurrently with FIN 699. Cannot receive credit for both FIN 599 and FIN 699. 3 S

#### **FIN 600 Managerial Finance**

Prerequisite: ACC 600 and ECO 600; 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. 3(3-0), F,S

#### **FIN 638 Introduction to Estate Planning**

Prerequisite: LAW 231 or LAW 600. 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. Identical with INS 638. May be taught concurrently with FIN 538. Cannot receive credit for more than one of FIN 538, FIN 638, INS 538, or INS 638. 3(3-0) F

#### **FIN 681 Professional Financial Planning**

Prerequisite: ACC 321 and FIN 381 and FIN 485 and INS 211 and LAW 231; and INS 314 or concurrent enrollment; and FIN 638 or concurrent enrollment. A case-oriented study of comprehensive financial planning for client families. This course integrates prior knowledge of financial planning principles and practice, investments, insurance, law, tax planning, retirement planning, and estate planning. Advanced topics in these subjects are also presented. The financial planning process, standards of professional practice, and planner ethics are emphasized. May be taught concurrently with FIN 581. Cannot receive credit for both FIN 681 and FIN 581. 3(3-0) S

#### **FIN 682 International Financial Management**

Prerequisite: grade of B- or better in FIN 380 or FIN 600. 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. May be taught concurrently with FIN 582. Cannot receive credit for both FIN 682 and FIN 582. 3(3-0) F,S

#### **FIN 695 Financial Markets Study Tour**

Prerequisite: a graduate GPA (Missouri State and transfer) of 3.50 or higher; recommendation of a finance faculty member; permission of department head. The course consists of three parts: 1. Background research and discussion of selected companies and institutions of one or more major financial center(s) (e.g. New York, Chicago, and/or London) and the economic, political, international, historical, social, ethical, and cultural environment in which they function. 2. A visit of approximately seven days' duration to the financial center(s) to visit selected companies, financial markets, and cultural icons. 3. A final written project and group discussion of the experience. The course involves extensive research, written and oral reporting, and group interaction based upon trust, respect and integrity. May be taught concurrently with FIN 595. Cannot receive credit for both FIN 695 and FIN 595. 3(3-0) D

**FIN 697 Research Issues and Problems: Finance**

Prerequisite: permission of department head. 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. May be taught concurrently with FIN 596. Cannot receive credit for more than 6 hours of FIN 596 and FIN 697 combined. 1-3 D

**FIN 699 Directed Study for CFA Level I Exam**

Prerequisite: permission of 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. May be taught concurrently with FIN 599. Cannot receive credit for both FIN 699 and FIN 599. 3 S

**FIN 780 Advanced Financial Management**

Prerequisite: ACC 711; and a grade of B- or better in FIN 600. 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. 3(3-0) F,S

**FIN 784 Management of Financial Institutions**

Prerequisite: a grade of B- or better in FIN 380 or FIN 600. 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. 3(3-0) F

**FIN 785 Investment Management**

Prerequisite: FIN 780. 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. 3(3-0) S

**FIN 787 Seminar in Derivatives**

Prerequisite: FIN 780. A study of the fundamentals, pricing, and trading strategies of options, forwards, futures and swaps. Emphasis is placed on the modeling tools most widely used for calculating their prices and related hedging parameters. The course includes an exploration of current/relevant literature concerning market mechanics, participants, and government regulation. Each student will participate in the preparation of a significant team project and presentation. 3(3-0) S

**FIN 788 Healthcare Financial Management**

An introduction to fundamental financial management concepts and skills necessary for managers at a variety of levels in healthcare organizations. The course provides an overview of financial management and how the finance function is organized in healthcare organizations. Topics covered include: tax status, third-party payers, payment methodologies, Medicare and Medicaid, cost accounting and analysis, rate setting, working capital, accounts receivable, budgeting, and financial analysis. 3(3-0) F

**FIN 790 Seminar in Finance**

Prerequisite: 15 graduate hours in business administration and economics including FIN 780 and permission of the coordinator of graduate studies. Critical evaluation and interpretation of research and literature in finance. 3(3-0) D

**FIN 794 Internship: Finance**

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. 3(3-0) F,S

**FIN 796 Independent Study: Finance**

Prerequisite: permission of the director of the appropriate graduate program and department head. 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. 1-3 F,S

## Insurance Courses

**INS 211 Insurance**

Prerequisite: 24 hours. Principles and functions of property, casualty and life insurance with applications in both personal and business situations. 3(3-0) F,S

**INS 312 Life Insurance**

Prerequisite: INS 211; 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. 3(3-0) S

**INS 313 Property and Liability Insurance**

Prerequisite: INS 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. 3(3-0) F

**INS 314 Employee Benefits and Social Insurance**

Prerequisite: 30 hours; 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. 3(3-0) S

**INS 397 Topics in Insurance**

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. May be repeated for a maximum of 6 hours. 1-3 D

#### **INS 415 Risk Management**

Prerequisite: 80 hours including INS 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. 3(3-0) S

#### **INS 538 Introduction to Estate Planning**

Prerequisite: 80 hours; and 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. Identical with FIN 538. May be taught concurrently with INS 638. Cannot receive credit for more than one of FIN 538, FIN 638, INS 538, or INS 638. 3(3-0) F

#### **INS 638 Introduction to Estate Planning**

Prerequisite: LAW 231 or LAW 600. 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. Identical with FIN 638. May be taught concurrently with INS 538. Cannot receive credit for more than one of FIN 538, FIN 638, INS 538, or INS 638. 3(3-0) F

## **Law Courses**

#### **LAW 231 Legal Environment of Business**

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. 3(3-0) F,S

#### **LAW 332 Debtor and Creditor Rights and Remedies**

Prerequisite: LAW 231; undergraduate business majors 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. 1(1-0) F,S

#### **LAW 335 Business Enterprises, Rights/Liabilities**

Prerequisite: LAW 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 LAW 335 and LAW 532. 2(2-0) F,S

#### **LAW 341 Legal Research and Writing**

Prerequisite: LAW 231; 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. 3(3-0) F

#### **LAW 368 Real Estate Law**

Prerequisite: FIN 266; and 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. Identical with FIN 368. Cannot receive credit for both LAW 368 and FIN 368. 3(3-0) S

#### **LAW 531 Labor Law and Employment Discrimination**

Prerequisite: LAW 231; and 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. May be taught concurrently with LAW 631. Cannot receive credit for both LAW 531 and LAW 631. 3(3-0) F

#### **LAW 532 Legal Environment of Business Organizations for Professionals**

Prerequisite: LAW 231; and 90 hours; and 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. Students who receive credit for LAW 532 may not also receive credit for LAW 335. May be taught concurrently with LAW 632. Cannot receive credit for both LAW 532 and LAW 632. 3(3-0) S

#### **LAW 537 Environmental Regulation**

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. May be taught concurrently with LAW 637. Cannot receive credit for both LAW 537 and LAW 637. 3(3-0) SO

#### **LAW 539 Legal Regulation of International Commerce**

Prerequisite: LAW 231; and 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. May be taught concurrently with LAW 639. Cannot receive credit for both LAW 539 and LAW 639. 3(3-0) D

**LAW 550 Negotiation, Mediation, and Arbitration in Business**

Prerequisite: 60 hours; and undergraduate business majors must be admitted to COBA. A practical, skills-based study of negotiation, mediation, and arbitration from the business manager's perspective. This hands-on course is designed to develop the skills necessary to enable the business manager to effectively participate in negotiation, mediation, and arbitration as alternatives to litigation for resolving business disputes. Identical with BUS 550. May be taught concurrently with LAW 650. Cannot receive credit for more than one of BUS 550, BUS 650, LAW 550, or LAW 650. 3(3-0) F,S

**LAW 600 Legal Environment for Business Managers**

Prerequisite: permission of a director of a COBA Graduate Program. Contemporary legal and ethical issues encountered by business managers will be discussed, including issues related to torts, vicarious liability, products liability issues; formation and enforcement of contracts and sale of goods; regulatory environment affecting employment practices/discrimination, product advertising and environmental responsibility; economic development issues associated with environmental sustainability, property rights, constitutional law and city planning. Agency liabilities and fiduciary responsibilities of agents and managers in business organizations will be examined. An overview of the court system and legal dispute resolution mechanisms will be integrated. This course is primarily intended for MBA students who do not have equivalent undergraduate business law course work, and this course will not be counted in the hours required for a COBA graduate degree. 3(3-0) F,SE

**LAW 631 Labor Law and Employment Discrimination**

Prerequisite: LAW 231 or LAW 600. Legal, regulatory, and ethical issues related to employer-employee relationship, including employment-at-will doctrine, discrimination and union contracts. May be taught concurrently with LAW 531. Cannot receive credit for both LAW 631 and LAW 531. 3(3-0) F

**LAW 632 Legal Environment of Business Organizations for Professionals**

Prerequisite: LAW 231 or LAW 600. 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. May be taught concurrently with LAW 532. Cannot receive credit for both LAW 632 and LAW 532. 3(3-0) S

**LAW 637 Environmental Regulation**

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. May be taught concurrently with LAW 537. Cannot receive credit for both LAW 637 and LAW 537. 3(3-0) SO

**LAW 639 Legal Regulation of International Commerce**

Prerequisite: LAW 231 or LAW 600. 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. May be taught concurrently with LAW 539. Cannot receive credit for both LAW 639 and LAW 539. 3(3-0) D

**LAW 650 Negotiation, Mediation, and Arbitration in Business**

A practical, skills-based study of negotiation, mediation, and arbitration from the business manager's perspective. This hands-on course is designed to develop the skills necessary to enable the business manager to effectively participate in negotiation, mediation, and arbitration as alternatives to litigation for resolving business disputes. Identical with BUS 650. May be taught concurrently with LAW 550. Cannot receive credit for more than one of BUS 550, BUS 650, LAW 550, or LAW 650. 3(3-0) F,S

**LAW 730 Seminar: Contemporary Legal Issues**

Prerequisite: LAW 231 or LAW 600. In-depth study of selected contemporary legal issues and their impact on the environment of business. Exploration of legal resources relevant to the topics. 3(3-0) D

**LAW 733 Legal Regulation of Competition and Monopoly**

Prerequisite: LAW 231 and LAW 335; or LAW 600. Evolution of legal theory regarding governmental regulation of business. The judicial application of laws relating to anti-trust, price discrimination, entry regulation, rate making. 3(3-0) D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Business Administration > Department of Management

## Department of Management

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Email: [Management@missouristate.edu](mailto:Management@missouristate.edu)  
Website: <http://mgt.missouristate.edu/>  
Department Head: Professor Barry L. Wisdom, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** 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.; William J. Donoher, Ph.D.; Vinay K. Garg, Ph.D.; Benjamin D. Goss, Ed.D.; Wesley A. Scroggins, Ph.D.

**Assistant Professors:** Dana L. Haggard, Ph.D.; Brent H. Kinghorn, Ph.D.; Melody LaPreze, Ph.D.; D. Michael Leibert, Dh.A.; Philip Rothschild, Ph.D.

**Instructors:** Michal Dale, M.A.; Dana J. Frederick, MBA; Patricia A. Lambert, Ed.D.; Joyce E Lopez, M.S.Ed.; Glenn R. Pace, MBA

**Emeritus Professors:** Yohannan T. Abraham, Ph.D.; Charles W. Boyd, Ph.D.; Mary K. Coulter, Ph.D.; Lena M. Cunningham-Smith, Ed.D.; Patricia Feltes, Ph.D.; Kenneth Horn, Ed.D.; Thomas H. Inman, Ed.D.; Mona (Casady) Niewald, Ph.D.; 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.; Karen Lee Woodall, Ed.D.

### Accreditation

AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Graduate Programs

The following graduate programs are available:

Master of Health Administration degree.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Business Administration Degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Business Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MBA graduation requirement, students exercising the accelerated MBA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Health Administration Degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Health Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MHA graduation requirement, students exercising the accelerated MHA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

**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.

### Majors

#### Entertainment Management (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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); LAW 335(2)
2. Complete 12 hours from the following: MGT 341(3), 367(3), 368(3), 397(3), 465(3), 486(3); FIN 266(3), 390(3); INS 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); MUS 362 or 375 or 376 or 393(1); MUS 529(3)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Entrepreneurship (Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program 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 (29-30 hours)

1. FIN 390(3); MGT 341(3), 345(3), 384(3), 543(3), 561(3); MKT 352(3) or 354(3) or 355(3)
2. Complete 8-9 hours from the following: ACC 311(3); BUS 510(3); TCM 458(3), 510(3); MGT 367(3), 368(3), 447(3); MKT 474(3); LAW 335(2)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Management (Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program 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 367(3), 384(3), 397(3), 442(3), 447(3), 465(3); LAW 335(2)

2. **Human Resources Management:**

- a. ACC 311(3); QBA 337(3); MGT 341(3), 345(3), 450(3) or 451(3), 465(3), 546(3); INS 314(3)
- b. Complete one course from: ECO 310(3); MGT 410(3), 447(3), 466(3)

3. **Operations Management:**

- a. ACC 311(3); QBA 337(3); MGT 341(3), 345(3), 368(3)
- b. Complete three course from: MGT 367(3), 447(3), 467(3), 565(3), 567(3); ACC 556(3); TCM 359(3)

4. **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.) International students whose native language is not English may be waived from the language requirement subject to the following:
  1. The student is a graduate of a secondary school in his/her home country.
  2. The native language is complementary to the Geographic Region of Specialization.
  3. The waiver will not result in a reduction of the total credit hours required toward the degree. The curriculum advisor in charge of International Business Administration option may recommend specific courses either in the English language and/or complementary to the major to make up the 12 credit hours.
- 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):** ANT 335(3); GRY 305(3), 320(3), 323(3), 397(1-3); PLN 597(1-5); HST 200(3), 340(3), 380(3), 381(3), 571(3), 597(1-3) – Asian History; LLT 215(3); MCL 303(3); PHI 314(3); PLS 545(3)
  2. **Latin America:** GRY 305(3), 320(3), 323(3), 397(1-3); PLN 597(1-5); HST 200(3), 350(3), 587(3), 597(1-3) – Latin American History; MCL 303(3); PLS 539 or 342(3), 548(3); SPN 302(3), 326(3)
  3. **Europe:** GRY 297(1), 305(3), 320(3), 323(3), 397(1-3); PLN 597(1-5); HST 200(3), 340(3), 353(3), 355(3), 361(3), 556(3), 559(3), 597(1-3) – European History; LLT 225(3); MCL 303(3); PLS 205(3), 341(3), 547(3); SPN 325(3); FRN 325(3), 326(3); GRM 325(3)
- c. **Special International Courses:** MGT 447(3); MKT 474(3) and one course from: FIN 582(3); ECO 565(3); GRY

100(3), 308(3), 321(3), 323(3); PLS 205(3), 232(3); LAW 539(3)

- d. Operational or Cultural Environment: This may be satisfied by a minimum of one semester of successful participation in an academic program consisting of coursework at an accredited overseas institution and/or internship at a firm in a foreign country consistent with the student's area of specialization approved by the curriculum advisor in charge of International Business Administration option. An exception to this may be made in the case of international students coming from a country that is consistent with their Geographic Region of Specialization; however, this action will not result in a reduction of the total hours required toward the degree. The curriculum advisor in charge of International Business Administration option may recommend specific courses either in English language and/or complementary to the major toward the total credit hour requirement toward the degree.
- 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 [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Entrepreneurial Studies

Bachelor of Science

- A. ACC 201(3); MKT 350(3); MGT 340(3), 384(3); FIN 350(3)
- B. Complete two courses from: MGT 341(3), 345(3); LAW 231(3); MKT 352(3) or 354(3) or 355(3); BUS 510(3)

### Entrepreneurship

Bachelor of Science

- A. MGT 345(3), 384(3), 543(3); FIN 390(3)
- B. Complete 6 hours from: MGT 341(3), 367(3), 447(3), 561(3); MKT 352(3) or 354(3) or 355(3); BUS 510(3)

### 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)

Related electives but not required for a minor: ECO 310(3); RIL 531(3); MGT 341(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); FIN 582(3)

### Leadership

Bachelor of Science

- A. MGT 340(3), 341(3), 440(3), 441(3), 442(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), 364(3), 367(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 364(3), 367(3), 368(3), 560(3), 561(3)

### Operations Management

Bachelor of Science

- A. ACC 201(3), 211(3); ECO 165(3); MGT 340(3), 364(3); QBA 237(3)
- B. Complete three courses from the following (not required in any other program): MGT 367(3), 368(3), 447(3), 467(3), 565(3), 567(3); ACC 311(3), 556(3); TCM 359(3)

## University Certificate (undergraduate)

## Entrepreneurship

The Entrepreneurship undergraduate certificate program provides a 15 hour educational experience in the entrepreneurial discipline. Students will receive instruction in a variety of areas including accounting, marketing, management, finance, and business planning.

**Entrance Criteria:** Students must not be admitted to a COBA degree program.

**Required Courses:** ACC 201(3); FIN 350(3); MGT 340(3), 384(3); MKT 350(3)

## Management Courses

### MGT 211 Talent Management in the Entertainment Industry

Prerequisite: 45 hours. Introduction to the roles, knowledge, and skills helpful to the development and growth of talent in the entertainment industry. While the primary focus will be on the relationship between the personal manager and the recording artist/group in the music industry, attention will also focus on strategies for expanding opportunities across the entertainment industry. 1(1-0) D

### MGT 286 Business Communications

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. 3(3-0) F,S

### MGT 300 Service Learning in Management

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. 1 F,S

### MGT 310 Introduction to the Entertainment Industry

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. 3(3-0) F

### MGT 320 Patterns of Management

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. 3(3-0) D

### MGT 325 Fundamentals of Personnel Administration

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. 3(3-0) D

### MGT 340 Organizational Behavior and Management

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. 3(3-0) F,S

### MGT 341 Advanced Organization Behavior and Development

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. 3(3-0) F,S

### MGT 342 Organization Structure and Design

Prerequisite: MGT 340; and 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. 3(3-0) F,S

### MGT 345 Human Resources Management

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. 3(3-0) F,S

### MGT 364 Operations Management

Prerequisite: MGT 340; nonbusiness majors QBA 237 or equivalent; and undergraduate business majors must be admitted to COBA. Exploration of competitive priorities to improve performance in a variety of business environments. Application of analytical tools to manage processes and projects within and across business functions. Flexible content to reflect trends in the occupational marketplace. 3(3-0) F,S

### MGT 367 Purchasing and Supply Management

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. 3(3-0) S

#### **MGT 368 Management Decision Making**

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. 3(3-0) F,S

#### **MGT 384 Entrepreneurship**

Prerequisite: ACC 201 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. In consultation with the instructor, students assess the viability of real business ventures. Cases are referred through the Small Business Development Center. Emphasis is placed on team preparation and presentation of a feasibility study. 3(3-0) F,S

#### **MGT 394 Cooperative Education in Management**

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. 1-3 F,S

#### **MGT 397 Business Report Writing**

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. 3(3-0) F,S

#### **MGT 398 Managerial Communication**

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. 3(3-0) S

#### **MGT 400 Topics in Management**

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. 1-3 D

#### **MGT 408 Sponsorships in Entertainment and Sport**

Prerequisite: undergraduate business majors must be admitted to COBA. Study of how sponsorship is a symbiotic revenue relationship between a brand and an entertainment/sport property, including reasons for the growth of sponsorship, benefits for brands, and benefits for properties. Other concepts examined include activation, cross-promotion, sponsorship tiers, associative benefits, sponsorship sales, and evaluative techniques for sponsorships. 1(1-0) D

#### **MGT 410 Venue Management**

Prerequisite: undergraduate business majors must be admitted to COBA; Recommended: MGT 310. 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. 3(3-0) D

#### **MGT 412 Managing Events in Entertainment and Sport**

Prerequisite: MGT 340 and MGT 310; and undergraduate business majors must be admitted to COBA; others by permission of instructor. Study of the financing, management and marketing processes of various entertainment and sport events. Topics addressed include alignment of events with organizational values and mission; strategic planning of an event; cost/benefit analysis; operational effectiveness; factors involving promotion, audience, partnerships, environment, revenue and cost centers; management of an event's stakeholder groups; analysis of pre- and post-event activities. 3(3-0) F,D

#### **MGT 413 Managing the Sport Enterprise**

Prerequisite: MGT 340 and MGT 310; and undergraduate business majors must be admitted to COBA; others by permission of instructor. Study of the distinct nature of the sport business and the application of planning, organizing, leading, and evaluating techniques applied to the operation of sport enterprises. Topics include the unique nature of the sport product; sport financial management principles, including cost sources and revenue streams; and the impact of sport as a social institution on the marketplace. 3(3-0) S,D

#### **MGT 440 Leadership Foundations and Development**

Prerequisite: MGT 340. The focus of this course is a comprehensive review of the writings and theories of leadership. Students will evaluate leadership traits and behavior, the effects of reciprocal influences, transformational leadership, the role of power versus authority, followership, and related matters. Focuses on building skills to inspire and organize people to achieve goals. Applications of theory to practice will be emphasized. Includes comprehensive self-assessments, experiential exercises, action learning projects, and individually tailored skill-improvement plans. 3(3-0), F

#### **MGT 441 Authentic Leadership in Business**

Prerequisite: MGT 440. This course examines the unique ethical demands of leadership and prepares students to better meet these challenges. Alternative perspectives of leadership and ethics are explored and applied to emergent ethical issues facing organizations. The overall mission of the course is to promote ethical decision-making and authentic leadership in organizations. The course seeks to teach students to recognize and be sensitive to moral issues, to consider such issues from multiple

perspectives, to engage in a systematic and transparent analysis of alternatives, and to take individual responsibility for their decisions and ethical conduct. Short cases, videos, news stories, self-assessment, exercises, and readings will be used to stimulate discussion. 3(3-0), S

**MGT 442 Selected Topics in Organizational Behavior**

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. 3(3-0) D

**MGT 447 International Management**

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 747. 3(3-0) D

**MGT 450 Human Resource Development**

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. 3(3-0) D

**MGT 451 Human Resource Acquisition**

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. 3(3-0) D

**MGT 465 Industrial Relations**

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. 3(3-0) F,S

**MGT 466 Advanced Issues in Human Resources Management**

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. 3(3-0) D

**MGT 467 Service Operations Management**

Prerequisite: MGT 364 and undergraduate business majors must be admitted to COBA. The study of operational initiatives and strategic issues to improve service performance. Application of techniques to investigate and resolve problems relative to quality, productivity, and effectiveness in the service firm environment. 3(3-0) S

**MGT 486 Administrative Communication**

Prerequisite: MGT 286; and undergraduate business majors must be admitted to COBA. Analysis of various business problem situations and development of appropriate communication strategies. 3(3-0) S

**MGT 487 Strategic Management and Policy**

Prerequisite: 102 credit hours including FIN 380 and MKT 350 and MGT 364 (Marketing majors may substitute MKT 450 for MGT 364); 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. 3(3-0) F,S

**MGT 494 Internship in Management**

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. 1-6 D

**MGT 496 Readings in Business Administration-Management**

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. 1-2 D

**MGT 543 New Venture Management**

Prerequisite: MGT 384; and undergraduate business majors must be admitted to COBA. Students conduct extensive research and in-depth analysis in starting or expanding their own business venture. Major topics include new venture strategy, sources of capital, and growth management. Emphasis is placed on student preparation and presentation of a complete business plan. May be taught concurrently with MGT 643. Cannot receive credit for both MGT 643 and MGT 543. 3(3-0) F

**MGT 546 Direct Compensation System Management**

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. May be taught concurrently with MGT 646. Cannot receive credit for both MGT 646 and MGT 546. 3(3-0) S

**MGT 560 History of Management Thought**

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. May be taught concurrently with MGT 680. Cannot receive credit for both MGT 680 and MGT 560. 3(3-0) D

**MGT 561 Practicum in Small Business Operations**

Prerequisite: MGT 384; and undergraduate business majors must be admitted to COBA. Students solve real problems within the small business environment. Students gain first-hand experience in assessing and improving the operations of existing entrepreneurial firms. Cases are referred through the Small Business Development Center. May be taught concurrently with MGT 671. Cannot receive credit for both MGT 671 and MGT 561. 3(3-0) S

**MGT 565 Advanced OM: Business Process Management**

Prerequisite: MGT 364; and undergraduate majors must be admitted to COBA. An in-depth analysis of business processes from an operations perspective. Study of specific practices and tools to design, improve, and support these processes in a variety of organizational settings. Use of professional BPM software is emphasized. May be taught concurrently with MGT 675. Cannot receive credit for both MGT 675 and MGT 565. 3(3-0) F

**MGT 567 Practicum in Operations**

Prerequisite: MGT 364; and one of the following: MGT 367, MGT 368 (or equivalent), MGT 467, MGT 565 or MGT 611; and undergraduate business majors must be admitted to COBA. Real-life experience in applying operational techniques to business and non-profit organizations. Students interests are matched to needs of local organizations to create hands-on projects. May be taught concurrently with MGT 677. Cannot receive credit for both MGT 677 and MGT 567. 3(3-0) S

**MGT 596 Research Issues and Problems: Management**

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. May be taught concurrently with MGT 697. Cannot receive credit for both MGT 697 and MGT 596. 1-3 D

**MGT 600 Administrative, Organizational and Operations Concepts for Managers**

Prerequisite: permission of a director of a COBA graduate program. Comprehensive study of the fundamentals of the management function, organizational 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 graduate degree. 3(3-0), F,S

**MGT 643 New Venture Management**

Students conduct extensive research and in-depth analysis in starting or expanding their own business venture. Major topics include new venture strategy, sources of capital, and growth management. Emphasis is placed on student preparation and presentation of a complete business plan. May be taught concurrently with MGT 543. Cannot receive credit for both MGT 543 and MGT 643. 3(3-0), F

**MGT 646 Direct Compensation System Management**

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. May be taught concurrently with MGT 546. Cannot receive credit for both MGT 546 and MGT 646. 3(3-0), S

**MGT 671 Practicum in Small Business Operations**

Students solve real problems within the small business environment. Students gain first-hand experience in assessing and improving the operations of existing entrepreneurial firms. Cases are referred through the Small Business Development Center. May be taught concurrently with MGT 561. Cannot receive credit for both MGT 561 and MGT 671. 3(3-0), S

**MGT 675 Advanced OM: Business Process Management**

An in-depth analysis of business processes from an operations perspective. Study of specific practices and tools to design, improve, and support these processes in a variety of organizational settings. Use of professional BPM software is emphasized. May be taught concurrently with MGT 565. Cannot receive credit for both MGT 565 and MGT 675. 3(3-0), F

**MGT 677 Practicum in Operations**

Prerequisite: MGT 600. Real-life experience in applying operational techniques to business and non-profit organizations. Students interests are matched to needs of local organizations to create hands-on projects. May be taught concurrently with MGT 567. Cannot receive credit for both MGT 567 and MGT 677. 3(3-0), S

**MGT 680 History of Management Thought**

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. May be taught concurrently with MGT 560. Cannot receive credit for both MGT 560 and MGT 680. 3(3-0), D

**MGT 697 Research Issues and Problems: Management**

Prerequisite: permission of department head. 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 taught concurrently with MGT 596. Cannot receive credit for both MGT 596 and MGT 697. 1-3, D

**MGT 701 Health Services Organization**

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. 3(3-0), F,S

**MGT 702 Managing Healthcare Organizations**

Prerequisite: MGT 701 or permission of instructor. A broad overview of techniques and practices applied to managing healthcare provider organizations at levels including governing board; professional staff; executive offices; and operational systems that deliver acute care, rehabilitation, diagnosis, therapy, ambulatory care, clinical information, clinical support, patient access, facilities and nutrition services. Organizational settings will include hospitals; physician practices; integrated health systems; rehabilitation and sub-acute facilities; behavioral medicine; long-term care; hospice; and home health. Course format will include a series of guest presentations from actively practicing, senior healthcare executives, along with visits to healthcare organizations. 3(3-0), S

**MGT 703 Organizational Behavior in Healthcare Organizations**

Prerequisite: MGT 600 or equivalent. The course will involve the study of individual and group behavior viewed from a leadership perspective within a healthcare organization with specific emphasis on leadership styles, ethics, motivational techniques, conflict resolution and professional norms in relationship to the various healthcare stakeholders and providers. Attention is focused on organizational dynamics, culture and governance of the different business entities involved in the delivery of healthcare services. 3(3-0), S

**MGT 704 Human Resources in Healthcare Organizations**

Prerequisite: MGT 600 or equivalent. Integration of human resources management into the strategic and operational decision-making processes of a contemporary healthcare organization. Functional topics include HR strategic planning, HR legal environment, direct and indirect compensation strategies, recruitment/selection/retention, workforce planning, job design and analysis, performance management, productivity analysis, workforce development/training, employee/labor and stakeholder relations and safety/health considerations. Particular consideration for HR concepts related to clinical professionals and physicians. 3(3-0), F

**MGT 705 Strategic Management of Healthcare Organizations**

Prerequisite: 18 graduate hours in health administration, including FIN 788. Integration of the functional areas of healthcare organizations via the strategic planning process. Emphasis is placed upon the identification of major strategic processes for healthcare organizations as well as policy issues related to the current and anticipated future healthcare environment. 3(3-0), F

**MGT 706 Organizational Communication**

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. 3(3-0), F

**MGT 711 Measurement and Management of Quality in Health Care**

Prerequisite: MGT 600 and QBA 600. Design, implementation, and management of health quality systems. Major emphasis placed on controlling health care costs through a reduction of waste and defects. Exposure to a variety of quality tools and quantitative techniques aimed at measuring performance and fostering continuous improvement. 3(3-0), D

**MGT 747 International Management**

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 747. 3(3-0), D

**MGT 760 Selected Topics in Management**

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. 3(3-0), D

**MGT 761 Operations Management: Comparative Theory and Practice**

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. 3(3-0), D

**MGT 762 Problems in Human Resources Management and Industrial Relations**

Prerequisite: MGT 600 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. 3(3-0), D

**MGT 764 Organizational Behavior**

Prerequisite: MGT 600 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. 3(3-0), F,S

**MGT 765 Organization Structure and Design**

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. 3(3-0), D

**MGT 767 Organization Strategy and Policy**



Prerequisite: 18 graduate hours in business administration and economics at the 700 level, including FIN 780 AND MKT 772. 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. 3(3-0), F,S

**MGT 770 Leadership Development**

Prerequisite: MGT 764. Comprehensive review of the writings and theories of leadership. Focuses on building skills to inspire and organize people to achieve tangible results. Comprehensive self-assessments, experiential exercises, action learning projects, and individually tailored skill-improvement plans. 3(3-0), D

**MGT 790 Seminar in Management**

Prerequisite: 18 graduate hours in business administration and economics. Critical evaluation and analysis of theory, research and practice in management. 3(3-0), D

**MGT 794 Internship: Management**

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. 3(3-0), F,S

**MGT 796 Independent Study: Business Administration**

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. 1-3, F

**MGT 799 Thesis**

Prerequisite: permission. Independent research and study connected with preparation of thesis. 1-6, D



Office of the Registrar  
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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Business Administration > Department of Marketing

## Department of Marketing

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Interim Department Head: Professor Ronald L. Coulter, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Melissa S. Burnett, Ph.D.; Ronald L. Coulter, Ph.D.; Nancy K. Keith, Ph.D.; John L. Kent, Ph.D.; R. Stephen Parker, D.B.A.; Dane K. Peterson, Ph.D.; Allen D. Schaefer, Ph.D.

**Associate Professors:** Charles M. Hermans, Ph.D.; Christina S. Simmers, Ph.D.

**Assistant Professors:** Ronald A. Clark, Ph.D.; Peggy S. Gilbert, M.B.A.; Georg Alex Hamwi, Ph.D.; Ahren Johnston, Ph.D.; Sarah M. Smith, Ph.D.

**Instructors:** Mary H. Chin, M.B.A.; Sherry J. Cook, M.B.A.; Christopher H. Ellis, M.B.A.; Courtney R. Pham, M.B.A.; Patrick R. Sells, M.B.A.

**Emeritus Professors:** T. Sam Brown, Ph.D.; Robert H. Luke, Ph.D.; Janice E. Parmley, M.A.; Charles E. Pettijohn, D.B.A.; Lois M. Shufeldt, Ph.D.

### Accreditation

AACSB International—The Association to Advance Collegiate Schools of Business – all programs.

### Graduate Programs

The following graduate programs are available:

Master of Business Administration degree administered by the College of Business Administration.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Business Administration Degree

Undergraduate majors in the College of Business Administration may apply for admission to the Master of Business Administration program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COBA classes taken in the senior year may be counted toward both the undergraduate and graduate degrees (Mixed Credit). As an MBA graduation requirement, students exercising the accelerated MBA option will be required to have had one year of professional experience or a 3 hour internship. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Majors

#### Logistics and Supply Chain Management (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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), 464(4) or 474(3), 472(3); MGT 367(3); MGT 368(3); QBA 337(3); GRY 321(3)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

#### Marketing (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program 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); 464(3) or 474(3), 472(3); QBA 337(3)
2. Complete one of the following options:
  - a. **Advertising and Promotion:**
    1. MKT 354(3); 380(3) or 390(3); 456(3)
    2. Complete two of the following: MKT 352(3); 380(3) or 390(3) if not taken to fulfill requirement No. 1 above; 480(3) or 510(3); ART 100(3)
  - b. **Marketing Management:**
    1. MKT 352(3), 430(3); MGT 397(3)
    2. Complete two of the following: MKT 354(3), 355(3), 452(3), 470(3); 476(3) or 510(3)
  - c. **Marketing Research**
    1. MKT 352(3), 470(3), 596(3); SOC 305(3); MGT 397 or ENG 321(3)
    2. Recommended electives (not required): MKT 354(3); MGT 561(3)
  - d. **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), 355(3), 430(3); BUS/LAW 550(3)
    3. Recommended electives (not required): MGT 343(3), 450(3); THE 123(3), 125(2)

D. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

## Minors

### Advertising and Promotion

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Science

- A. MKT 350(3), 351(3), 354(3), 456(3)
- B. Complete two courses from: ART 100(3); MKT 352(3), 380(3), 390(3); 480(3) or 510(3)

### International Marketing

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. MKT 350(3), 474(3); MGT 340(3), 447(3)
- B. Complete one course from: MKT 464(3); ECO 346(3), 565(3), FIN 582(3); ACC 506(3)

### Logistics and Supply Chain Management

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Science

- A. MKT 350(3), 430(3), 440(3), 450(3)
- B. Complete one course from: MGT 367(3); MKT 460(3), 464(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)

### 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.

## Marketing Courses

### **MKT 150 Marketing Fundamentals**

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. 3(3-0) F,S

### **MKT 300 Service Learning in Marketing**

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. 1 D

### **MKT 350 Principles of Marketing**

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. 3(3-0) F,S

### **MKT 351 Consumer Market Behavior**

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. 3(3-0) F,S

### **MKT 352 Personal Selling**

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. 3(3-0) F,S

### **MKT 354 Principles of Advertising**

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. 3(3-0) F,S

### **MKT 355 Principles of Retailing**

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. 3(3-0) F

### **MKT 360 Marketing Research**

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. 3(3-0) F,S

### **MKT 380 Creative Advertising**

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. 3(3-0) F

### **MKT 390 Promotion Management and Implementation**

Prerequisite: MKT 354; and undergraduate business majors must be admitted to COBA. A study of the promotional mix. Attention is focused on sales promotion, its design and implementation; including research, planning, target market assessment, budgeting, vehicle selection, and measures of efficiency and effectiveness. Topics include the buying and selling of mix elements, both traditional and non-traditional. 3(3-0) F,S

### **MKT 394 Cooperative Education in Marketing**

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. 1-3 F,S

### **MKT 410 Entertainment and Services Marketing**

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. 3(3-0) F,S

### **MKT 430 Introduction to Logistics**

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. 3(3-0) F,S

### **MKT 440 Logistics Models**

Prerequisite: MKT 430; and undergraduate business majors must be admitted to COBA. This course investigates the role of information management and decision support methods in the planning and management of supply chains and related processes.

The course addresses techniques and methods used in facility location; forecasting; inventory control; routing and scheduling; purchasing; warehousing and other activities. 3(3-0) F,S

**MKT 450 Supply Chain Management**

Prerequisite: MKT 350 or BUS 510; and undergraduate business majors must be admitted to COBA. This course emphasizes the adoption of a supply chain orientation toward business and the need for more effective inter-firm relationships and operational processes. Topics include the structure and dynamics of supply chains; finance; operations; the global supply chain environment; forecasting/demand management; process analysis; inventory; performance measurement; inter-functional and inter-organizational relationships; and the role of information systems and the internet. 3(3-0) F,S

**MKT 451 Advanced Selling**

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. 3(3-0) F,S

**MKT 452 Sales Management**

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. 3(3-0) F,S

**MKT 455 Advanced Retailing Practices**

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. 3(3-0) S

**MKT 456 Advanced Advertising**

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. 3(3-0) F,S

**MKT 460 Logistics and Supply Chain Strategy**

Prerequisite: MKT 440 and MKT 450; and undergraduate business majors must be admitted to COBA. This course requires the students to integrate concepts learned throughout their academic experience into a combined analysis of current events and the completion of a corporate project. Analysis of comprehensive cases incorporating strategic and tactical decisions throughout the entire supply chain management process is required. The students' analyses culminate in presentations to their corporate clients. 3(3-0) F,S

**MKT 464 International Logistics and Global Supply Chain Management**

Prerequisite: MKT 350; and undergraduate business majors must be admitted to COBA. Principles of logistics activities in international business with special emphasis on transportation, global sourcing, customs issues, import-export opportunities, customs documentation, the role of government in international transactions, customer service, and global supply chain management. Special emphasis is placed on current events and their effect on the marketing and logistics activities of organizations. Cannot receive credit for both MKT 464 and MKT 764. 3(3-0) F

**MKT 470 Advanced Marketing Research**

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. 3(3-0) S

**MKT 472 Advanced Marketing**

Prerequisite: MKT 351 and MKT 360; 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. 3(3-0) F,S

**MKT 474 International Marketing**

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. Cannot receive credit for both MKT 474 and MKT 774. 3(3-0) F,S

**MKT 476 Futuristics: Business and Society**

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. 3(3-0) D

**MKT 480 Advertising Campaigns**

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). 3(3-0) S

**MKT 485 Marketing Yourself**

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. 3(3-0) F,S

**MKT 494 Executive Internship-Marketing**

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. 1-3 F,S

**MKT 496 Readings in Business Administration-Marketing**

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. 1-2 F,S

**MKT 497 Topics in Marketing**

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. 1-3 D

**MKT 510 E-Marketing**

Prerequisite: BUS 510 or MKT 354 or MKT 355; 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. May be taught concurrently with MKT 610. Cannot receive credit for both MKT 610 and MKT 510. 3(3-0) F,S

**MKT 596 Research Issues and Problems: Marketing**

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. May be taught concurrently with MKT 686. Cannot receive credit for both MKT 686 and MKT 596. 1-3 F,S

**MKT 600 Marketing Concepts for Managers**

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 graduate degree. 3(3-0), F,S

**MKT 610 E-Marketing**

Prerequisite: MKT 600 or MKT 772; and BUS 610. 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. May be taught concurrently with MKT 510. Cannot receive credit for both MKT 510 and MKT 610. 3(3-0), F,S

**MKT 730 Logistics and Transportation**

Prerequisite: MKT 600 or equivalent. This course introduces students to the concepts and terminology associated with the planning and management of logistics activities. The course investigates introductory decisions in inventory management, warehousing, transportation, customer service, performance measurement, and others. 3(3-0), F,S

**MKT 740 Supply Chain Models and Systems**

Prerequisite: MKT 730. This course addresses concepts, techniques and systems used in supply chain management and decision support. Specific areas include ERP systems, manufacturing planning and management techniques and systems, inventory management, warehouse layout, distribution management, routing and scheduling, process analysis, network analysis and the application of simulation and optimization techniques. 3(3-0), F

**MKT 750 Supply Chain Management Seminar**

Prerequisite: 15 graduate hours in business administration and economics. This course emphasizes the adoption of a supply chain orientation toward business and the need for more effective inter-firm relationships and operational processes. The course incorporates analyses of comprehensive cases involving strategic and tactical decisions throughout product and service supply chains in a domestic and global environment. 3(3-0), S

**MKT 760 Logistics and Supply Chain Management**

Prerequisite: MKT 740 or MKT 750. This course serves as a capstone experience involving actual company projects, a comprehensive supply chain simulation exercise, and the identification and discussion of current events in logistics and supply chain management. Class sessions are augmented by discussions of current events involving logistics and supply chain management. 3(3-0), S

**MKT 764 International Logistics and Global Supply Chain Management**

Prerequisite: MKT 600 or equivalent. Theory and practice of logistics activities in international business with special emphasis on transportation, global sourcing, customs issues, import-export opportunities, customs documentation, the role of government in international transactions, customer service, and global supply chain management. Special emphasis is placed on current events and their effect on the marketing and logistics activities of organizations. Cannot receive credit for both MKT 764 and MKT 464. 3(3-0), S

**MKT 770 Seminar in Marketing Research**

Prerequisite: 18 graduate hours in business administration and economics including MKT 772. 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. 3(3-0) F

**MKT 772 Marketing Management**

Prerequisite: MKT 600 or equivalent. Theoretical bases of marketing concepts, principles and strategies; development, acceptance and expected future direction of emerging marketing practices. 3(3-0), F,S

**MKT 774 International Marketing**

Prerequisite: MKT 600 or equivalent. Advanced management, theory, and analysis 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. Cannot receive credit for both MKT 774 and MKT 474. 3(3-0), F,S

**MKT 776 Futuristics: Business and Society**

Prerequisite: MKT 600 or equivalent. 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 life-styles, and society in general. Students are required to complete a research project in the course area. 3(3-0), D

**MKT 790 Seminar in Marketing**

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. 3(3-0), D

**MKT 794 Internship: Marketing**

Prerequisite: permission of 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. 3(3-0), F,S

**MKT 796 Independent Study: Marketing**

Prerequisite: MKT 770 and permission of 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. 1-3, F,S

**MKT 799 Thesis**

Prerequisite: permission of department head. Independent research and study connected with preparation of thesis. 1-6, D

## Quantitative Business Analysis Courses

**QBA 237 Basic Business Statistics**

Prerequisite: CIS 101 or CSC 101; and grade of C or better in MTH 135 or higher (excluding MTH 130, formerly 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, regression analysis. 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, MTH 340, PSY 200, QBA 237, REC 328, SOC 302. 3(3-0) F,S

**QBA 337 Applied Business Statistics**

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, regression analysis and correlation, nonparametric methods, time series and forecasting, statistical process control, and decision theory. Computer statistical packages will be utilized in analysis of a variety of applications problems. 3(3-0) F,S

**QBA 600 Statistical Methods in Business Research**

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 graduate degree. 3(3-0), F,S

**QBA 737 Research Design and Analysis**

Prerequisite: QBA 775 or concurrent enrollment. 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. 3(3-0), S

**QBA 775 Quantitative Methods in Business Decision Making**

Prerequisite: QBA 600 or equivalent. A study of quantitative methods used to improve the decision-making process in business. Major topics include constrained optimization models, forecasting models, distribution/network models, simulation models, and project scheduling. 3(3-0), F,S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Business Administration > Department of Technology and Construction Management

## Department of Technology and Construction Management

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Email: [tcm@missouristate.edu](mailto:tcm@missouristate.edu)  
Website: <http://tcm.missouristate.edu>  
Department Head: Professor Shawn D. Strong, Ph.D.

### Faculty (as of July 15, 2011)

**Associate Professors:** R. Neal Callahan, Ph.D.; Richard J. Gebken, Ph.D.; Dianne K. Slattery, P.E., Ph.D.

**Assistant Professors:** Richard D. Bruce, Ph.D., LEED AP; Rita S. Hawkins, Ph.D.; David S. Joswick, M.Tech.; Martin P. Jones, Ph.D.; Kerry T. Slattery, P.E., Ph.D.

**Instructor:** David S. Joswick, M.Tech.

**Emeritus Professors:** Robert B. Beach, Ed.D.; Gary O. Bennett, M.S.; Lawrence C. Drake, Ed.D.; Armin F. Gimbel, Ed.D.; Clifford L. House, 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.; Rathel R. Smith, M.S., CPI; Houston Taylor, Ed.D.

### Accreditation

American Council for Construction Education (ACCE) – Construction Management, B.S., The Association of Technology, Management, and Applied Engineering (ATMAE) – Construction Management and Technology Management, B.S.

### Graduate Programs

The following graduate programs are available:

Project Management (Master of Science). Courses are offered toward the Project Management option within the Master of Science degree in Administrative Studies.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Science Degree in Project Management

Exceptional undergraduate students may apply for preliminary acceptance into the Master of Science in Project Management degree program their junior year after admission requirements for the accelerated program have been satisfied. If approved, up to 12 hours of 600-level or 700-level TCM courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

#### University Certificate (graduate)

Graduate level certificate programs are available in Project Management and in Technology Management. Refer to the Graduate Catalog for more information.

### Majors

#### Construction Management (Comprehensive)

Bachelor of Science

**Admission Requirement:** "C" grade or better in MTH 261, 285, or 287

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

Specific General Education Requirements:

1. Culture and Society: ECO 155(3); PHI 115(3)
2. Self-Understanding: PSY 121(3)
3. Writing II: ENG 321(3) is recommended
4. Mathematics: Choose one from MTH 261(5), 285(3), or 287(3). Students taking MTH 285 must also take CIS 201(2) or QBA 337(3).
5. Natural World: choose either PHY 123(4) or 203(5), and one additional science course with lab. GLG 110 or GRY 142 is recommended.

B. Major Requirements (75 hours)

1. TCM 121(3), 122(3), 221(3), 267(3), 318(3), 320(3), 321(3), 322(3), 323(3), 324(3), 326(3), 359(3), 424(3), 425(3), 426(3), 427(3); 454(3) or 455(3); 456(3); 453(3) or 551(3); 494(1), 499(2); ACC 201(3); QBA 237(3); LAW 231(3)
2. Complete 6 hours from: ACC 211(3), 311(3); BUS 135(3); CIS 201(2); ECO 165(3); FIN 266(3), 380(3), 367(3), FIN/LAW368(3), FIN 369(3); LAW 332(1), 335(2), 531(3), 532(3); MGT 345(3), 364(3), 367(3), 368(3), 465(3); MKT 350(3), 355(3), 430(3), 440(3), 450(3); QBA 337(3); TCM 358(3); approved TCM technical elective (3)
3. 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

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Facility Management (Comprehensive)

Bachelor of Science

**Admission Requirement:** "C" grade or better in MTH 181(3)

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

Specific General Education requirements:

1. Culture and Society/Social Science Perspective: ECO 155(3)
2. Self-Understanding/Social-Behavioral Perspective: PSY 121(3)
3. Mathematics: MTH 181(3)
4. Natural World: BIO 102(4); CHM 105(5)

B. Major Requirements (75 hours)

1. Core courses (24 hours) TCM 350(3), 359(3), 455(3), 456(3), 494(1), 499(2); 453(3) or 551(3); ACC 201(3); LAW 231(3)
2. Facility Management courses (21 hours) TCM 221(3), 303(3), 313(3), 324(3), 354(3), 401(3), 402(3)
3. Facility Management Technical courses (21 hours) TCM 121(3), 122(3), 321(3), 322(3), 347(3), 366(3), 438(3)
4. Select one of the following option areas: (9 hours)
  - a. **Healthcare:** BIO 210(3); TCM 502(3), 503(3)
  - b. **Hospitality:** HRA 210(3), 215(3), 218(3)
  - c. **Industrial/Production:** TCM 110(3), 355(3), 555(3)
  - d. **Property Management:** FIN 266(3), 367(3), 369(3)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Technology Management

Bachelor of Applied Science

A. General Education Requirements - see [General Education Program 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. 40 hours of advisor approved upper-division courses, 12 hours of which must be from the Department of Technology and Construction Management to include TCM 359(3) and TCM 458(3)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Technology Management (Non-Comprehensive)

Bachelor of Science

**Admission Requirement:** "C" grade or better in MTH 135 or higher

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

Specific General Education Requirements:

1. Mathematics: MTH 135(3) or higher
2. Self-Understanding: PSY 121(3) recommended

B. Major Requirements (60 hours)

1. TCM 337(3), 350(3), 358(3), 359(3), 455(3), 456(3), 458(3), 494(1), 551(3)
2. Complete one of the following options:
  - a. 35 hours of approved technical transfer credit
  - b. ACC 201(3); LAW 231(3); TCM 110(3), 303(3), 331(3), 347(3), 355(3), 365(3), 499(2), 511(3), and approved TCM technical electives (6)

C. **Approved** Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Minors

#### Industrial Management

Bachelor of Applied Science

Bachelor of Arts



#### Bachelor of Science

Complete 15 hours of the following (course groupings are to indicate possible areas of emphasis):

- A. Construction Technology: TCM 121(3), 122(3), 221(3), 359(3), and 454(3)
- B. Production Technology: ENG 321(3); TCM 355(3), 503(3), 511(3), and one of the following: TCM 110(3), 303(3), 331(3), 354(3), 365(3), 399(3), 499(2) or 545(3)
- C. Project Management: TCM 110(3), 359(3), 456(3), 545(3), and 551(3)
- D. Facility Management: TCM 121(3), 122(3), 303(3), 313(3), and 359(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, TCM 110, and TCM 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:** TCM 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

### Technology and Construction Management Courses

#### TCM 110 Industrial Design with Computer Applications

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. 3(2-2) F

#### TCM 121 Construction Principles and Practice

An introductory course which investigates the principles and practices associated with common building structural systems- includes foundations, 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. Supplemental course fee. 3(2-2) F

#### TCM 122 Construction Materials and Methods

An introductory course which provides an overview of the materials and methods used in light framing and building finish systems from floor to roof and from exterior cladding to interior finishes. Includes wood light framing, light gage metal framing, 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. Supplemental course fee. 3(2-2) S

#### TCM 221 Construction Drawings

Prerequisite: TCM 121 or TCM 122 or concurrent enrollment. 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. 3(2-2) F,S

#### TCM 267 Statics

Prerequisite: PHY 123 or PHY 203; and MTH 261 or 287. A study of the mechanics of forces associated with rigid bodies in equilibrium. Development of problem solving skills. 3(3-0) F,S

#### TCM 296 Readings in Technology

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. 1-3 F,S

#### TCM 297 Topics in Technology

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. 1-3 D

#### TCM 299 Cooperative Education in Technology

Prerequisite: permission of department head. 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. 1-3 F,S,Su

#### TCM 303 Facilities Operation and Maintenance

Introduces history and concepts of facility management, with emphasis on definition of key terms and concepts. Introduction to operations and maintenance of buildings with an emphasis on techniques utilized to maintain facilities. 3(2-2) S

#### TCM 311 Engineering Graphics

Prerequisite: TCM 110. 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. 3(2-2) S

### **TCM 313 Facility Design**

Prerequisite: TCM 221. Facility space programming and design requirement analysis. Utilization of building information modeling as a design and facility management tool. 3(2-2) S

### **TCM 318 Structural Design Principles**

Prerequisite: TCM 267. 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. 3(2-2) F,S

### **TCM 320 Construction Contracts, Specifications and Law**

Prerequisite: LAW 231. 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. 3(3-0) F

### **TCM 321 Mechanical Systems for Buildings**

Prerequisite: TCM 121 or TCM 122; and MTH 135 or higher. 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. 3(3-0) F

### **TCM 322 Electrical Systems for Buildings**

Prerequisite: TCM 221. 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. Supplemental course fee. 3(3-0) S

### **TCM 323 Construction Surveying**

Prerequisite: TCM 122; and MTH 261 or MTH 287; and 53 hours. Construction field engineering activities to include surveying, site layout and dimensional control. Interpretation of plot books, site plans, and topographic maps is also included. 3(2-2) F,S

### **TCM 324 Construction Cost Estimating I**

Prerequisite: TCM 122 and TCM 221. 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. 3(2-2) S

### **TCM 326 Construction Soils and Foundations**

Prerequisite: TCM 267. 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. Supplemental course fee. 3(2-2), S

### **TCM 331 Emerging Technologies in Materials and Processes**

The study and application of basic electronics and materials (metals, ceramics, polymers, and composites) used in emerging technologies and their impact on the development of innovative products and processes. 3(2-2) S

### **TCM 337 Quality Control and Measurement**

This course covers basic techniques of quality control and metrology. Topics covered include basic statistics, process capability, statistical process control, sampling, and measuring and gauging techniques. 3(3-0), F

### **TCM 347 Industrial Equipment and Control**

Prerequisite: TCM 322 or TCM 331. Examines industrial power delivery systems and their control including electrical and mechanical systems. Laboratory experiences will include an introduction to hydraulics and pneumatics, motors and motor controls, and programmable logic controllers. Supplemental course fee. 3(2-2), F

### **TCM 350 Management and Control of Quality**

Prerequisite: TCM 337. A study of management and control of quality as applied to both production and service enterprises. Topics include: basic quality systems, quality planning, international quality systems, supply chain management. In addition, an introduction to six sigma and design of experiments is included. 3(3-0) S

### **TCM 354 Facility Planning**

Prerequisite: TCM 313. This course emphasizes the strategic role required of the facilities manager in providing information for corporate managers and executives for facility forecasting. 3(3-0) F

### **TCM 355 Production Planning and Control**

Prerequisite: 53 hours. Production planning and control activities in the various industrial 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. 3(3-0) S

### **TCM 358 Introduction to Technology Management**

Provides students with a conceptual framework for understanding the social and economic environment of contemporary technology. 3(3-0), F

### **TCM 359 Principles of Project Management**

Prerequisite: 53 hours. 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. 3(3-0) F,S

### **TCM 361 Service Learning in Technology**

Prerequisite: 30 hours and concurrent registration in an TCM 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. May be repeated. 1 F,S

**TCM 365 Computer Integrated Manufacturing**

Prerequisite: TCM 110 and TCM 347. A study of the design, integration, and information flow, associated with automated manufacturing systems. Topics covered include CAD/CAM, robotics, and PLC applications. 3(2-2) F

**TCM 366 Energy and Control Systems**

Prerequisite: TCM 347; or TCM 321 and TCM 322. Comprehensive overview of building operating systems and their design and functions. In-depth analysis of the various types of building mechanical systems. 3(2-2) F

**TCM 396 Readings in Technology**

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. 1-3 F,S

**TCM 397 Topics in Emerging Technology**

A variable content course that reflects the latest developments, applications, and opportunities associated with emerging technologies. Current research at the Center for Applied Science and Engineering (CASE) is emphasized. Consult the semester class schedule for the current offering under this number. May be repeated for a total of 6 hours. 1-3 D

**TCM 399 Cooperative Education in Industry**

Prerequisite: 60 hours and permission of Department Head. 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. 1-3 F,S,Su

**TCM 401 Facility Management**

Prerequisite: TCM 354. Students examine how facilities, building operations, and maintenance functions are managed. Examines non-building related services. Focuses on security, food services, reprographics, transportation, property disposal, purchasing, and mail and messenger services. 3(3-0) F

**TCM 402 Facility Administration**

Prerequisite: TCM 354. Covers the procedural, tracking, and resource requirements needed to carry out the responsibilities assigned to the facility function. Topics of study include portfolio management, contracts and specifications, and the coordination of personnel. 3(3-0) S

**TCM 411 Mechanical Design and Analysis**

Prerequisite: TCM 311. A study of CAD management professional's role in the decision and design processes used to create components and systems. Topics include: design phases, team interaction and leadership, group technical communication via the internet, material and process evaluation for sustainable, economical and LEAN design, application of codes and standards, and design of mechanical and piping systems. 3(2-2) D

**TCM 424 Construction Cost Estimating II**

Prerequisite: TCM 324. Recommended Prerequisite: concurrent enrollment in TCM 425 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. 3(2-2) F

**TCM 425 Construction Planning and Scheduling**

Prerequisite: TCM 324 and TCM 359. Recommended Prerequisite: concurrent enrollment in TCM 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. 3(2-2) F

**TCM 426 Construction Project Administration**

Prerequisite: TCM 320. A study of the legal and administrative aspects of construction projects. Includes use of documents, subcontracting, purchasing, changes, claims, payments, and closeout. 3(3-0) F

**TCM 427 Construction Equipment Management**

Prerequisite: TCM 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. 3(3-0) S

**TCM 438 Systems Integration**

Prerequisite TCM 366. Emphasizes the use of technology to promote the facility management department as a business unit. Process for evaluating and implementing facility management technologies. Low voltage and life safety systems, integration of the various facility technologies. 3(2-2), S

**TCM 453 Construction Cost Management**

Prerequisite: ACC 201 and TCM 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. 3(3-0) S

**TCM 454 Construction Safety Management**

Prerequisite: 53 hours. 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. 3(3-0) F

**TCM 455 Safety Management**

Occupational safety and health standards and codes. Hazard recognition, accident costs, accident prevention, ethics and administration. OSHA certification is not offered with this course. Cannot receive credit for both TCM 454 and TCM 455. 3(3-0), S

**TCM 456 Supervision**

Prerequisite: 53 hours. A study of the role of the supervisor and the concepts and techniques that may be utilized to optimize productivity. Topics include the legal aspects of supervision, roles and responsibilities of the supervisor and guiding teamwork. 3(3-0) F,S

**TCM 458 Technology Management**

Prerequisite: TCM 358. Focuses on the strategic management of technology and innovation in entrepreneurial enterprises. 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. 3(3-0) Su

**TCM 494 Professional Internship**

Prerequisite: permission of Department Head. 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. Supplemental course fee. 1 F,S,Su

**TCM 497 Topics in Emerging Technology**

Prerequisite: permission of Department Head. A variable content course that reflects the latest developments, applications and opportunities associated with emerging technologies. Current research at the Center for Applied Science and Engineering (CASE) is emphasized. Consult the semester class schedule for current offerings under this number. May be repeated to a total of 6 hours. 1-3 D

**TCM 499 Senior Project**

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. 2 F,S

**TCM 502 Healthcare Facility Management**

Prerequisite: MTH 181 and TCM 401. Examines facility management attributes related to maintenance and operations; regulatory compliance; planning, design and construction; and administration unique to healthcare. May be taught concurrently with TCM 602. Cannot receive credit for both TCM 502 and TCM 602. 3(3-0) D

**TCM 503 Project Risk Analysis**

Prerequisite: TCM 350 or QBA 237. In-depth analysis of the types of risks that threaten projects at each stage of development. Strategies used to recognize risks, assess probabilities and potential impacts, steps to respond to project risks. Tools used to analyze and plan for managing project risk. May be taught concurrently with TCM 603. Cannot receive credit for both TCM 503 and TCM 603. 3(3-0), D

**TCM 511 Product Design and Development**

Prerequisite: TCM 359; and 80 hours; and undergraduate industrial management majors must be admitted to the program. An overview of the product development process from concept generation to design in an entrepreneurial environment. 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. May be taught concurrently with TCM 611. Cannot receive credit for both TCM 511 and TCM 611. 3(3-0) D

**TCM 545 Project Control Systems**

Prerequisite: TCM 359; and undergraduate industrial management majors must be admitted to the program. Advanced application of microcomputers with an emphasis on their use in project control. Topics include project control planning and objectives, change control processes, project documentation and communication, project progress/variance reports, payment requisitions, project closure activities, and project lessons learned systems. May be taught concurrently with TCM 645. Cannot receive credit for both TCM 545 and TCM 645. 3(3-0) Su

**TCM 551 Cost Analysis for Project Management**

Prerequisite: 80 hours; and undergraduate industrial management majors must be admitted to the program. The use of cost analysis as a decision-making tool in the context of project management. Topics include the time value of money, analysis of alternatives, decision-making under risk, estimating, cost accounting, and capital budgeting. May be taught concurrently with TCM 651. Cannot receive credit for both TCM 551 and TCM 651. 3(3-0) S

**TCM 555 Statistical Quality Control and Design of Experiments**

Prerequisite: QBA 237 or equivalent; and 80 hours; 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. May be taught concurrently with TCM 655. Cannot receive credit for both TCM 555 and TCM 655. 3(3-0) D

**TCM 596 Readings in Technology Management**

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. May be taught concurrently with TCM 696. Cannot receive credit for both TCM 696 and TCM 596. 1-3 F,S

#### **TCM 597 Topics in Technology Mgt**

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. May be taught concurrently with TCM 697. Cannot receive credit for both TCM 597 and TCM 697. 1-3 D

#### **TCM 602 Healthcare Facility Management**

Prerequisite: permission. Examines facility management attributes related to maintenance and operations; regulatory compliance; planning, design and construction; and administration unique to healthcare. May be taught concurrently with TCM 502. Cannot receive credit for both TCM 602 and TCM 502. 3(3-0) D

#### **TCM 603 Project Risk Analysis**

Prerequisite: TCM 701 and acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. In-depth analysis of the types of risks that threaten projects at each stage of development. Strategies used to recognize risks, assess probabilities and potential impacts, steps to respond to project risks. Tools used to analyze and plan for managing project risk. May be taught concurrently with TCM 503. Cannot receive credit for both TCM 603 and TCM 503. 3(3-0) D

#### **TCM 611 Product Design and Development**

Prerequisite: TCM 701 and acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. An overview of the product development process from concept generation to design in an entrepreneurial environment. 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. May be taught concurrently with TCM 511. Cannot receive credit for both TCM 611 and TCM 511. 3(3-0), S

#### **TCM 645 Project Control Systems**

Prerequisite: TCM 701 and acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. Advanced application of microcomputers with an emphasis on their use in project control. Topics include project control planning and objectives, change control processes, project documentation and communication, project progress/variance reports, payment requisitions, project closure activities, and project lessons learned systems. May be taught concurrently with TCM 545. Cannot receive credit for both TCM 645 and TCM 545. 3(3-0), Su

#### **TCM 651 Cost Analysis for Project Management**

Prerequisite: acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. The use of cost analysis as a decision-making tool in the context of project management. Topics include the time value of money, analysis of alternatives, decision-making under risk, estimating, cost accounting, and capital budgeting. May be taught concurrently with TCM 551. Cannot receive credit for both TCM 651 and TCM 551. 3(3-0), F,S

#### **TCM 655 Statistical Quality Control and Design of Experiments**

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. May be taught concurrently with TCM 555. Cannot receive credit for both TCM 655 and TCM 555. 3(3-0), D

#### **TCM 696 Readings in Technology Management**

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. May be taught concurrently with TCM 596. Cannot receive credit for both TCM 696 and TCM 596. 1-3, F,S

#### **TCM 697 Topics in Technology Management**

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. May be taught concurrently with TCM 597. Cannot receive credit for both TCM 697 and TCM 597. 1-3, D

#### **TCM 701 Project Management**

Prerequisite: acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. 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. 3(3-0), F,S

#### **TCM 710 Project Leadership**

Prerequisite: acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. 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. 3(3-0), F,S

#### **TCM 726 Seminar in Project Management**

Prerequisite: TCM 701; and a total of 21 graduate hours in the Project Management M.S. program of study; and permission of Project Management M.S. program director. Presentation and discussion of professional or technical problems in the organization and management of projects. 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. 3(3-0), F,S

#### **TCM 740 Management of Innovation and Technology**

Prerequisite: acceptance in the Project Management M.S. or Graduate Certificate program; or permission of the Project Management M.S. program director. 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. 3(3-0), Su

**TCM 750 Advanced Project Management**

Prerequisite: TCM 701; and a total of 12 graduate hours in the Project Management M.S. program of study. 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. 3(3-0), S

**TCM 760 Special Investigations**

Prerequisite: permission of Project Management M.S. program director. 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. 1-5, D

**TCM 792 Graduate Internship**

Prerequisite: permission of Project Management M.S. program director. 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. 3(3-0), F,S,Su

**TCM 798 Research**

Prerequisite: permission of Project Management M.S. program director. Supervised research in technology. May be repeated, but not more than 3 hours may be counted toward a Master's degree. Graded Pass/Not Pass only. 1-3, F,S,Su

**TCM 799 Thesis**

Prerequisite: permission of Project Management M.S. program director. Preparation of a thesis. May be repeated, but no more than 3 hours may be counted as credit toward a Master's degree. Graded Pass/Not Pass only. 1-3, F,S,Su

Office of the Registrar  
2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Education

## College of Education

Dean: Professor Dennis J. Kear, Ph.D.

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Web Site: <http://education.missouristate.edu>

### Academic Units

- Department of Childhood Education and Family Studies
- Department of Counseling, Leadership and Special Education
- Greenwood Laboratory School
- Department of Reading, Foundations and Technology

### Center for Research and Service

#### Institute for School Improvement (ISI)

The mission of the Institute for School Improvement (ISI) is to achieve improved learning through research and development collaborations between PreK-12 schools, community constituents, and higher education institutions. Located at Missouri State University (MSU), ISI is a research arm of the College of Education. The Dean of the College of Education serves as head of the Institute, a senior faculty member serves as director of research and evaluation, and an experienced staff member serves as coordinator of school and community partnerships. The director and ISI staff work collaboratively with faculty associates and graduate assistants in programs and projects that link theory and research to practice. ISI activities take place in programs and projects for the design, development, implementation, and evaluation of evidence-based practices.

Among its goals, ISI strives to:

- Improve student learning and educational practices.
- Contribute to the development of sound educational policy.
- Create and field test evidence-based practices for teaching and school leadership.
- Generate new knowledge and improvements in theory.
- Facilitate dialogue and mutual beneficial relationships among educators and researchers.
- Initiate and respond to requests for project proposals.
- Support the continuing professional development of teachers, administrators, and other educational personnel.
- Develop, use, and promote trustworthy methods for conducting educational research and evaluation.
- Assure protection of human subjects through highly ethical and clearly defined methodologies for inquiry.
- Enhance dissemination of research findings and evaluation results to practitioners, policymakers and other researchers.

Current programs and projects within ISI include the Ozarks Educational Research Initiative (OERI), the Teacher Education Alliance (TEA), Enhancing Children's Healthy Opportunities (ECHO), the Laubach Way to Reading, and new initiatives underway.

#### 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, Hill Hall, room 200, (417) 836-8772. This office provides a program evaluation and transcript analysis service for initial certificates (\$50 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 2011.

**Communication Sciences and Disorders**, Dr. Neil DiSarno, 836-5368

Speech/Language Specialist (K-12)

Deaf/Hearing Impaired (K-12)

**Counseling, Leadership, and Special Education**, Dr. Tamara J. Arthaud, 836-5449

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)

**Childhood Education and Family Studies**, Dr. Josephine Agnew-Tally, 836-3262

Early Childhood Education (Birth - 3)

Elementary Education (1-6)

**Reading, Foundations, and Technology**, Dr. Cathy Pearman, 836-6769

Middle School (5-9): Language Arts, Social Studies, Mathematics, Science, Agriculture\*, Business\*, Drama\*, Speech\*

**Secondary Education (9-12/K-12)**, Dr. Denise Fredrick, 836-6204

Agriculture (9-12), Dr. Anson Elliott, 836-5638

Art (K-12), Mr. Wade Thompson, 836-5110

Business (9-12), Dr. Jerry Chin, 836-4131

English (9-12), Dr. W. D. Blackmon, 836-5107

English for Speakers of Other Languages (K-12)\*

Family and Consumer Sciences (Birth-12), Dr. Shawn Strong, 836-5136

Foreign Language-French, German, Latin, Spanish (K-12), Dr. Jason Jolley, 836-5122

Mathematics (9-12), Dr. Kenneth Vollmar, 836-5112

Music (K-12), Dr. Julie Combs, 836-5648

Instrumental

Vocal/Choral

Physical Education (K-12), Dr. Sarah McCallister, 836-5370

Driver's Education (9-12)\*

Health (K-12)\*

Science (9-12):

Biology-Categorical, Dr. Alicia Mathis, 836-5126

Biology-Unified Science, Dr. Alicia Mathis, 836-5126

Chemistry-Categorical, Dr. Alan Schick, 836-5506

Chemistry-Unified Science, Dr. Alan Schick, 836-5506

Earth Science-Categorical, Dr. Thomas Plymate, 836-5800

Earth Science-Unified Science, Dr. Thomas Plymate, 836-5800

Physics-Categorical, Dr. David Cornelison, 836-5131

Social Studies (History) (9-12), Dr. Kathleen Kennedy, 836-5511

Speech/Theatre (9-12), Dr. Robert Willenbrink, 836-4400

\*Only available as an additional area of certification. Student must be concurrently enrolled in another area of Elementary, Middle School, or Secondary Education.



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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Education > Department of Childhood Education and Family Studies

## Department of Childhood Education and Family Studies

Hill Hall, Room 301A, Phone: (417) 836-3262, Fax: (417) 836-8900  
Email: [cefs@missouristate.edu](mailto:cefs@missouristate.edu)  
Website: <http://education.missouristate.edu/cefs>  
Department Head: Professor Josephine C. Agnew-Tally, Ed.D.

### Faculty (as of July 15, 2011)

**Professors:** Roberta J. Aram, Ph.D.; David W. Brown, Ed.D.; Suzanne M. George, Ph.D.; John M. Hail III, Ph.D.; Cynthia K. Wilson Hail, Ph.D.

**Associate Professors:** Sabrina Brinson, Ph.D.; Joanna J. Cemore Brigden, Ph.D.; Denise D. Cunningham, Ph.D.; Mary Beth Mann, Ph.D.; James A. Meyer, Ph.D.; Joan Test, Ed.D.

**Assistant Professor:** Diana Piccola, Ph.D.

**Senior Instructor:** Kathy A. Bernet, M.S.

**Instructors:** Christine Combs, Ed.D.; Cynthia L. Freeman; Cynthia McMeley; Kim Roam, M.S.; V. Jane Ward, Ed.Sp.; Gina M. Wood, Ed.D.

**Emeritus Professors:** Haldon D. Funk, Ed.D.; John F. Newport, Ed.D.; Linda K. Peacock, M.Ed.; Peggy S. Pearl, Ed.D.; Dale G. Range, Ed.D.; Barbara A. Sperling, Ed.D.; Roger N. Tipling, Ed.D.

### Accreditation

Missouri Accreditation of Childhood Care and Education Programs – Child Development Center. Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Early Childhood Education, B.S.Ed., and Elementary Education, B.S.Ed., M.S.Ed. Association for Childhood Education International (ACEI) – Elementary Education, B.S.Ed., M.S.Ed. National Association for the Education of Young Children – Early Childhood Education, B.S.Ed.

### Graduate Programs

The following graduate programs are available:

Early Childhood and Family Development (Master of Science); and Elementary Education (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Science in Education degree in Elementary Education

Eligible Missouri State undergraduate BSED majors may apply for preliminary acceptance into the MSED Elementary Education program after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take 6-12 hours of graduate level education courses that apply to both their undergraduate and graduate programs (Mixed Credit). See the Graduate Catalog for further information.

#### Accelerated Master of Science degree in Early Childhood and Family Development

Eligible Missouri State undergraduate students majoring in Child and Family Development and Early Childhood Education may apply for preliminary acceptance into the MS Early Childhood and Family Studies program after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take 10 hours of graduate level courses that apply to both their undergraduate and graduate programs (Mixed Credit). Only 3 hours of 600-level courses can be applied to the graduate degree. See the Graduate Catalog for further information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

#### Child Development Center

The Missouri State University Child Development Center provides a high quality developmentally appropriate early childhood program for children 6 weeks to 5 years, and a laboratory for students. The laboratory experience allows students to link educational theory with practice by observing and working with young children. In addition to a high quality program for children of university students, faculty and staff, and the community the Child Development Center provides opportunities for research and reflects a commitment to diversity. The Director of the Child Development Center is a member of the Childhood Education and Family Studies Department.

#### Health, Insurance and Registry Requirements

All students must maintain the following:

- A. A current negative tuberculin skin test.
- B. All students are required to obtain professional liability insurance.
- C. All students must complete the Family Care Safety Registry before going out to any field experience.

Fees are required for the tuberculin skin test, the registry, and pre-professional liability insurance. For additional information, contact the Professional Education Advisement Center, Hill Hall, room 202, (417) 836-5429.

## Majors

### Child and Family Development (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: PSY 121(3); SOC 150(3); BMS 105(4) or 110(4) or BIO 100(4) or BIO 102(4)
- B. Major Requirements (70-72 hours): Students must select an area of emphasis with approval of a CFD advisor: early childhood, school age, child life, or family studies.
  - 1. Core Courses: CFD 150(1), 155(3), 160(3), 163(3), 366(1); 360(5) or 454(3) or 533(4); 463(3), 466(6)
  - 2. Related Requirements: BMS 130(3); FCS 120(2) or PED 253(2) or PED 257(2); FCS 373(3); PSY 441(3), PSY elective (3)
  - 3. Area of Emphasis: With advisor approval complete 21 hours of the following courses: CFD 250(3), 257(3), 260(4), 300(1-3), 301(3), 304(3), 305(3), 306(3), 350(3), 353(3), 354(4), 360(5), 361(3), 365(3), 400(1-3), 454(3), 455(4), 499(1-6), 500(1-3), 532(3), 533(4), 560(3), 562(3)
  - 4. With advisor approval complete 12 hours of selected electives.
  - 5. Candidates for the Bachelor of Science in Child and Family Development are required to meet the following grade requirement: a grade of "C" or better in each CFD course required for graduation.
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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. Holders of this early childhood certificate may be employed to teach from birth through grade 3.

#### Admission Requirements

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, and in the department office in Hill Hall 301A. Students must have passed all sections of the C-BASE Exam (scores of 265 required by Missouri State) before applying to the Early Childhood Education Program. Applications for the program must be submitted during the semester of enrollment in ELE 302 by October 1 for fall semesters and March 15 for spring semesters. 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, written essay, and passing scores (see above) on the C-BASE Exam. Students will be notified of the decision in writing by November 1 for fall semesters and April 1 for spring semesters. 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.

Additionally, State Board of Education certification rules require a passing score on each portion 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. Missouri State further requires C-BASE minimum scores of 265.

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree (see application procedures in the [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog.)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog (43-51 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. Self-Understanding/Social-Behavioral Perspective: PSY 121(3)
  - c. 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: BMS 130(3); CFD 260(4), 463(3)
  4. Mathematics: MTH 320(3)
- D. Professional Education (56 hours): NOTE: A grade of "C" or better in each course is required for state certification.
1. Foundations of Teaching: EDC 345(3), 350(3); ELE 302(3); SPE 310(3)
  2. Teaching Methods: CFD 455(4); ECE 301(3), 302(2), 303(3), 304(1), 401(3), 402(2); EDT 365(3); 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 [Degrees, Programs and Requirements](#) section of catalog
- F. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### 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 in the "Teacher Certification, Teacher Education Program" section of the catalog.) In addition to meeting all requirements for admission to the Teacher Education Program, those wishing to pursue a degree in Elementary Education must have a combined (MSU and transfer) GPA of 2.75 or higher.

#### Program Requirements

Candidates for the Bachelor of Science in Education degree in Elementary Education are required to meet the following grade point average requirements: at least a 2.75 GPA on all course work attempted at all colleges attended; at least a 2.75 GPA in the certificate subject area (major field of study) which includes all courses listed under B, D, and E; at least a 2.75 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.

Additionally, State Board of Education certification rules require a passing score on each portion 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. Missouri State further requires C-BASE minimum scores of 265.

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. 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 7 credit hour block of courses in the semester preceding supervised teaching. This block of courses is taken two days per week and includes ELE 500(3-5) and 510(2). An extensive field experience in area public school classrooms is included in this block and students must commit to two full school days 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 Requirements - see [General Education Program and Requirements](#) section of catalog (43-51 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)
    - c. Self-Understanding Social-Behavioral Perspective: PSY 121(3) or CFD 155(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 122(3) recommended
  - b. PLS 101(3)
- B. Degree Requirements for Teacher Certification (10 hours):
  1. Mathematics: MTH 320(3) and MTH 360(3)
  2. Earth Science: GRY 240(4)
- C. Area of Concentration (minimum 21 hours):  
Elementary education majors are required by DESE to have a 21 hour area of concentration. The elementary education program has been structured to include an area of concentration with a minimum of 21 hours in communication arts. Therefore, no additional hours will be required to meet the area of concentration.
- D. Program Emphasis or a Minor (minimum of 12 additional semester hours). Select at least one of the following program emphases or a minor:
  1. In consultation with an advisor, complete a minimum of 12 semester hours additional coursework in one of the following areas: Early Childhood Education, Middle School Education, Special Education, Reading Education, Communication Arts, Science, Mathematics, Social Studies, Cultural and Linguistic Diversity, Instructional Technology, Foreign Language, Psychology, Art, Music, or Physical Education. 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, earn a minor offered under the BSED degree in Biology, English, French, General Consumer and Family Studies, Geography, German, History, Linguistics, Mathematics, Music, Political Science, Psychology, Sociology, Spanish, Teaching English to Speakers of Other Languages, or Writing. Courses taken to satisfy requirements in A and B above may also be utilized to meet a portion of this option; however, a minimum of 12 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.
- E. Professional Education (62-64 hours): Note: A grade of "C" or better in each course is required for state certification.
  1. Foundations of Teaching: EDC 345(3), 350(3); ELE 302(3); PSY 385(3) or CFD 257(3); SPE 310(3)
  2. Teaching Methods: ECE 501(3); EDT 365(3); ELE 410(3), 429(3), 434(3), 438(3), 500(3-5), 510(2); ENG 334(3); PED 400(1); RDG 318(3), 420(3), 421(2)
  3. Supervised Teaching: ELE 495(6), 496(6)
- F. Specific Requirements for Bachelor of Science in Education degree - see [Degrees, Programs and Requirements](#) section of catalog
- G. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Child and Family Development

Bachelor of Arts  
 Bachelor of Science  
 Bachelor of Social Work

- A. Select six hours from the following, with approval of a CFD advisor: CFD 155(3), 160(3), 163(3)
- B. Select twelve hours from the following: any CFD course; FCS 373(3); or BMS 130(3) with approval of a CFD advisor to bring total to at least 18 hours. Up to 3 credit hours of CFD 197 may be taken.

## Child and Family Development Courses

### CFD 150 Introduction to Child and Family Development

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. 1(1-0) F,S

### CFD 155 Principles of Human Development

General Education Course (Self-Understanding/Social-Behavioral Perspective). Basic principles that govern human development from the prenatal period to death; developmental tasks and interrelations of family members through the life span. 3(3-0) F,S

### CFD 160 Principles of Development in Early Childhood

Development of the child from conception through 8 years of age including weekly laboratory experience with preschool children. 3(2-2) F,S

### CFD 163 Relationships in Today's Families

Personal and family living in the early stages of family life cycle. Concepts and methods used in initiating, building, maintaining and enriching relationships. 3(3-0) F,S

### CFD 197 Introductory Topics in Child and Family Development

Variable content course for introductory concepts in Child and Family Development. May be repeated to a total of 6 hours when topics change. 1-3 D

### CFD 250 Parenting in Contemporary Society

Explores parenting and child rearing in today's society. 3(3-0) F

**CFD 255 Principles of Development in Infancy**

Prerequisite: CFD 160. Child from conception through two years, including prenatal environment. Two hours laboratory experience weekly in infant-toddler child development laboratory. 3(2-2) D

**CFD 256 Supervised Experience in the Infant Toddler Center**

Experience in applying effective techniques that optimize infant toddler development with 2-hours per week of participation in the infant toddler laboratory. 1(0-2) D

**CFD 257 Principles of Development in Middle Childhood**

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. 3(3-0) S

**CFD 260 Supervised Experience in the Child Development Laboratories**

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. 4(2-4) F,S

**CFD 300 Special Topics in Child and Family Development**

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. 1-3 D

**CFD 301 Play as Development**

A study of play and its relationship to typical and atypical development in the physical, cognitive, language, moral, social, and emotional domains. Factors that influence play such as environment, adults, children, attitudes, and beliefs are discussed. The role of play for all people throughout the lifespan is examined. 3(3-0) S

**CFD 303 Service Learning Child and Family Development**

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. 1 D

**CFD 304 Outdoor Play**

Provides information on the importance of outdoor play, how to choose materials and equipment, adult roles and current research on outdoor play. Students will learn how to evaluate outdoor play environments. 3(3-0) D

**CFD 305 Multicultural Studies in Child and Family Development**

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. 2(2-0) F

**CFD 306 Separation and Loss**

This online course will provide a broad overview of the psychological aspects of separation and loss in our society. Topics include attitudes toward and preparation for death; the understanding of and care for terminally ill patients, burial, mourning, and grief practices, grief counseling, suicide and euthanasia. This course covers how to assist children with loss, great or small, from divorce, moving, hospitalization, trauma or death. Readings and classroom activities will be supplemented by students' self-exploration and writing on feelings, attitudes, and beliefs about separation and loss. 3(3-0) S,Su

**CFD 350 Seminar in Child and Family Development**

Readings, discussion and analysis of trends and issues in child and family development. 3(3-0) D

**CFD 353 Childhood Illnesses, Injuries, Diseases and Disorders**

This online course will provide an overview of the common childhood illnesses, injuries, diseases and disorders for non-medical professionals who work in the health care field. Topics will assist the person in developing the skills and knowledge for working with ill and hospitalized children. This course is an introduction to pediatric care in health care settings. It is designed to educate non-medical professionals (Child Life Specialists, Social Workers, Chaplains, Patient Advocates, etc.) who will work in the health care field on medical issues. 3(3-0) F,Su

**CFD 354 Working with the Hospitalized Child**

Prerequisite: CFD 160. Students will learn 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. This course will include a weekly laboratory experience within a Child Life Program of a local hospital. 4(3-2) F

**CFD 360 Planning and Implementing Curriculum for Child Development Centers**

Prerequisite: 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. 5(2-6) S

**CFD 361 Principles of Family Development**

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. 3(3-0) S

**CFD 365 Families in Later Life**

Prerequisite: PSY 121; and CFD 155 or CFD 163 or 30 hours. 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. Identical with GER 365, PSY 366 and SWK 365. Can only receive credit for one of following: CFD 365, GER 365, PSY 366 or SWK 365. 3(3-0) F

**CFD 366 Preparation for the Professional Internship**

Prepares the Child and Family Development student for an internship and professional practice, including discussion of professional/ethical issues and behavior, choosing professional development sites, setting goals, writing resumes, and interviewing skills and certification. 1(1-0), F,S

**CFD 400 Problems in Child and Family Development**

Prerequisite: 90 hours and permission. Independent study for those who wish additional work in specific subject areas. 1-3 D

**CFD 454 Therapeutic Play Activities for Hospitalized Children**

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 including weekly hospital laboratory experience of playroom and bedside activities with hospitalized children and their families. 3(2-2) S

**CFD 455 Infants and Toddlers: Development and Program Planning**

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. 4(3-3) F,S,Su

**CFD 463 Administration of Programs for Children and Families**

Types, purposes and administration of programs for children, youth and families. 3(2-2) F,S

**CFD 466 Internship in Programs for Children, Youth, Adults, and Families**

Prerequisite: CFD 366. Supervised active learning experiences with children, youth, or families in human service agencies; observation, discussion, and evaluation of the student's experiences. Advance registration with course instructor required. May be repeated for up to 12 hours credit. 6(0-12) F,S,Su

**CFD 499 Practicum in Child and Family Development**

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. 1-6, D

**CFD 500 Issues in Child and Family Development**

Prerequisite: 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. May be taught concurrently with CFD 600. Cannot receive credit for both CFD 600 and CFD 500. 1-3 D

**CFD 532 Family Advocacy**

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. May be taught concurrently with CFD 632. Cannot receive credit for both CFD 632 and CFD 532. 3(3-0) D

**CFD 533 Principles of Family Life Education**

Prerequisite: junior standing. A study of the philosophical and methodological considerations in facilitating family life education programs. Field experiences are a part of this course. May be taught concurrently with CFD 633. Cannot receive credit for both CFD 633 and CFD 533. 4(4-0) D

**CFD 560 Family Involvement in Early Childhood Programs**

Prerequisite: CFD 260. 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. May be taught concurrently with CFD 660. Cannot receive credit for both CFD 660 and CFD 560. 3(2-2) F,S

**CFD 562 Prevention of Child Abuse and Neglect**

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. May be taught concurrently with CFD 662. Cannot receive credit for both CFD 662 and CFD 562. 3(3-0) F,S

**CFD 600 Issues in Child and Family Development**

Prerequisite: 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. May be taught concurrently with CFD 500. Cannot receive credit for both CFD 500 and CFD 600. 1-3, D

**CFD 632 Family Advocacy**

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. May be taught

concurrently with CFD 532. Cannot receive credit for both CFD 532 and CFD 632. 3(3-0), D

**CFD 633 Principles of Family Life Education**

A study of the philosophical and methodological considerations in facilitating family life education programs. Field experiences are a part of this course. May be taught concurrently with CFD 533. Cannot receive credit for both CFD 533 and CFD 633. 4(4-0), D

**CFD 660 Family Involvement in Early Childhood Programs**

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. May be taught concurrently with CFD 560. Cannot receive credit for both CFD 560 and CFD 660. 3(2-2), F,S

**CFD 662 Prevention of Child Abuse and Neglect**

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. May be taught concurrently with CFD 562. Cannot receive credit for both CFD 562 and CFD 662. 3(3-0), F,S

**CFD 701 Orientation to Early Childhood and Family Development**

Orientation to the program and examination of seminal reading in the field. 1(1-0) F,S

**CFD 702 Community Engagement**

Analysis of service-learning/community engagement. The main tenets of community engagement/service learning are analyzed, the community need, the academic enhancement, and reflection. The roles of all involved in community engagement/service learning, the teachers, the students, and the community partners are studied. Ethical, moral, and civic implications of community engagement/service-learning are also explored. 2(2-0) D

**CFD 750 Advanced Human Development Studies**

Analysis of theories and trends in human development. 3(3-0), F

**CFD 761 Advanced Family Studies**

Provides students with an understanding of theories used in the study of families; awareness of current demographics and trends of today's families; examines characteristics of various family structures and social influences impacting family functioning. 3(3-0), D

## Early Childhood Education Courses

**ECE 301 Emerging Literacy and Communication Arts**

Prerequisite: permission. 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. 3(3-0) F,S

**ECE 302 Social Studies and Sociomoral Development**

Prerequisite: permission. 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. 2(2-0) F,S

**ECE 303 Mathematics and Science for Young Children**

Prerequisite: permission. 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. 3(3-0) F,S

**ECE 304 The Early Childhood Education Professional**

Prerequisite: admission to the Teacher Education Program; and admission to the Early Childhood Education Program. Professionalism in the early childhood education field; being a reflective practitioner, formatting and beginning professional materials such as their teaching portfolio, developing their philosophy, and lesson plans; exploring the early childhood professional code of ethics. 1(1-0) F,S

**ECE 401 Curriculum For Early Childhood Education**

Prerequisite: ELE 302 and ECE 301 and ECE 302 and ECE 303; concurrent enrollment in ECE 402; and admitted to Teacher Education Program. 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. 3(3-0) F,S

**ECE 402 Assessing Young Children**

Prerequisite: ELE 302 and ECE 301 and ECE 302 and ECE 303; concurrent enrollment in 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. 2(2-0) F,S

#### **ECE 490 Supervised Teaching (Infant/Toddler Settings)**

Prerequisite: all program courses except CFD 560 and CFD 563 which may be taken with or at the completion of supervised teaching; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Students will observe and then teach under the supervision of 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

#### **ECE 491 Supervised Teaching (Preschool/Kindergarten Settings)**

Prerequisite: all program courses except CFD 560 and CFD 563 which may be taken with or at the completion of supervised teaching; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Students will observe 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 university supervisor. Students will be involved in the development of lessons, materials, and units appropriate for preschool and Kindergarten children. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

#### **ECE 492 Supervised Teaching (Primary Settings)**

Prerequisite: all program courses except CFD 560 and CFD 563 which may be taken with or at the completion of supervised teaching; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Students will observe 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 university supervisor. Students will be involved in the development of lessons, materials, and units appropriate for children in primary settings. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

#### **ECE 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. 4 F,S

#### **ECE 501 Home/School/Community Relationships with Young Children and Their Families**

Prerequisite: Elementary Education undergraduate students must take ELE 500 concurrently. 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. May be taught concurrently with ECE 601. Cannot receive credit for both ECE 601 and ECE 501. 3(3-0) D

#### **ECE 601 Home/School/Community Relationships with Young Children and Their Families**

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. May be taught concurrently with ECE 501. Cannot receive credit for both ECE 501 and ECE 601. 3(3-0), D

#### **ECE 705 Field Experiences in Early Childhood Education**

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. 1-3, D

#### **ECE 724 Foundations of Early Childhood Education**

Course will focus on the historical, psychological, philosophical, and social foundations of early childhood education. Theories and research are integrated with practical knowledge. Students will examine philosophy, curriculum, methodology, service delivery systems, and family involvement issues. 2(2-0), D

#### **ECE 725 Trends and Issues in Early Childhood Education**

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. 3(3-0), F

#### **ECE 726 Programming and Policy Issues for Early Childhood Settings**

Analysis of programs, policies and theories appropriate for young children and their families in a variety of early childhood settings. 3(3-0), S

#### **ECE 727 Children and Families in a Diverse Society**

Examination of diverse cultures in American society. An analysis of racism, sexism, and other diversity issues within the school



and community. Discussion of child development within different cultures and identifying changing family and community structures. 3(3-0), D

#### **ECE 728 The Educational Role of Play**

A study of the social, emotional, cognitive, and language development of young children through play. Attention is given to the use of play in the organization and development of the early childhood classroom and curriculum. Current models of early childhood curriculum and their relationship to support of play will be explored. 3(3-0), D

#### **ECE 729 Literacy in Early Childhood**

Develops awareness of and support for children's literacy knowledge as it grows and changes in the years from birth through early elementary school. This course emphasizes the supportive nature of the adult's role in young children's literacy learning. Descriptions of relevant, meaningful literacy events and suggestions for classroom or home support will be presented. Current research that has a bearing on methodology will be explored. 3(3-0), D

#### **ECE 730 Family Literacy**

Introduction to the philosophy and theory behind family literacy, as well as discussion on the development and implementation of a family literacy program. The four-component model of adult education, early childhood education, parent and child together (PACT), and parenting will be covered, both in theory and practical application. Explores the rationale for and characteristics of comprehensive family literacy, focusing upon the families being served, services being provided, outcomes being achieved, and the role and responsibilities of individuals, organizations, and communities involved. 3(3-0), D

#### **ECE 762 Seminar in Early Childhood and Family Development**

Prerequisite: SFR 780 and permission. Guided development of research paper focused on field of Early Childhood and Family Development. 3(3-0), F,S

#### **ECE 771 Proposal Development**

Development of proposal for seminar paper. Proposal must be approved prior to data collection. Human subjects review will also be completed. 1(1-0), F,S

## **Early Childhood and Elementary Education Courses**

#### **EEM 305 Field Experiences in Education**

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. 1(0-2) or 2(0-4) F,S

#### **EEM 399 Problems in Education**

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. 1-3 F,S

#### **EEM 501 Introduction to Technology-Based Inquiry Instruction**

Prerequisite: admitted to Teacher Education Program. Introduction to eMINTS philosophy and instructional model for teachers, emphasis on constructivist-based pedagogies, questioning strategies and critical thinking; use of educational software, internet resources and classroom web site design and development. Eight clock hours field experience embedded. May be taught concurrently with EEM 601. Cannot receive credit for both EEM 501 and EEM 601. 3(3-0) F

#### **EEM 502 Applications of Technology-Based Inquiry Instruction**

Prerequisite: admitted to Teacher Education Program; and EEM 501 with grade of C or better. Application of eMINTS philosophy, instructional model and teaching strategies; emphasis on cooperative learning, instructional use of interactive whiteboards, information literacy and modes of classroom communication, digital file management, webquest development and multimedia project design and development. Eight clock hours field experience embedded. May be taught concurrently with EEM 602. Cannot receive credit for both EEM 502 and EEM 602. 3(3-0) S

#### **EEM 503 Implementing Technology-Based Inquiry Instruction**

Prerequisite: admitted to Teacher Education Program; and EEM 501 and EEM 502 with grades of C or better. Third course in eMINTS 3-course sequence. Emphasis on building a learning community, classroom management, instructional planning and implementation in a technology enriched classroom, interdisciplinary teaching methods, technology-assisted assessment, collaborative reflection to improve student performance. Eight clock hours field experience embedded. May be taught concurrently with EEM 603. Cannot receive credit for both EEM 503 and EEM 603. 3(3-0) F

#### **EEM 576 Topical Issues in Education**

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. May be taught concurrently with EEM 676. Cannot receive credit for both EEM 676 and EEM 576. 1-5 D. Approved recurring course topic: B.E.A.R.S. Seminars. 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. 1(1-0), F

#### **EEM 596 Orientation for Intensive Language and Cultural Experience for Educators**

Prerequisite: previous foreign language experience, participation in Hispanic Educational Access Initiative, and permission of

instructor; students selected by application and interview process. Prepare for international travel and exposure to the people, cultures and primary language of the host country. Students develop an introspective case study proposal to be carried out during and/or after the experience abroad. Field trips outside class are required. May be taught concurrently with EEM 606. Cannot receive credit for both EEM 606 and EEM 596. 1(1-0) S

**EEM 597 Intensive Language and Cultural Experience for Educators**

Prerequisite: EEM 596 and permission of instructor. Experience three weeks of exposure to the educational system, culture and language of the host country while reflecting on their own learning. Students will conduct an introspective case study, keep a journal, and create a portfolio. May be taught concurrently with EEM 607. Cannot receive credit for both EEM 607 and EEM 597. 4(3-2) Su

**EEM 598 Post-Travel Seminar for Intensive Language and Cultural Experience for Educators**

Prerequisite: EEM 596 and EEM 597 and permission of instructor. Post-travel seminar deconstructs experience abroad. Students discuss strategies used as a learner and analyze effective teaching techniques. Participants compare cultural and language differences that teachers need to consider in teaching students in a new language. Introspective case study research and portfolios will be shared. May be taught concurrently with EEM 608. Cannot receive credit for both EEM 608 and EEM 598. 1(1-0) F

**EEM 601 Introduction to Technology-Based Inquiry Instruction**

Introduction to eMINTS philosophy and instructional model for teachers, emphasis on constructivist-based pedagogies, questioning strategies and critical thinking; use of educational software, internet resources and classroom web site design and development. Eight clock hours field experience embedded. May be taught concurrently with EEM 501. Cannot receive credit for both EEM 601 and EEM 501. 3(3-0) F

**EEM 602 Applications of Technology-Based Inquiry Instruction**

Prerequisite: EEM 601 with grade of C or better. Application of eMINTS philosophy, instructional model and teaching strategies; emphasis on cooperative learning, instructional use of interactive whiteboards, information literacy and modes of classroom communication, digital file management, webquest development and multimedia project design and development. Eight clock hours field experience embedded. May be taught concurrently with EEM 502. Cannot receive credit for both EEM 602 and EEM 502. 3(3-0) S

**EEM 603 Implementing Technology-Based Inquiry Instruction**

Prerequisite: EEM 601 and EEM 602 with grades of C or better. Third course in eMINTS 3-course sequence. Emphasis on building a learning community, classroom management, instructional planning and implementation in a technology enriched classroom, interdisciplinary teaching methods, technology-assisted assessment, collaborative reflection to improve student performance. Eight clock hours field experience embedded. May be taught concurrently with EEM 503. Cannot receive credit for both EEM 603 and EEM 503. 3(3-0) F

**EEM 606 Orientation for Intensive Language and Cultural Experience for Educators**

Prerequisite: permission. Students selected by application and interview process. Prepare for international travel and exposure to the people, cultures and primary language of the host country. Students develop an introspective case study proposal to be carried out during and/or after the experience abroad. Field trips outside class are required. May be taught concurrently with EEM 596. Cannot receive credit for both EEM 596 and EEM 606. 1(1-0), S

**EEM 607 Intensive Language and Cultural Experience for Educators**

Prerequisite: EEM 606 and permission. Experience three weeks of exposure to the educational system, culture and language of the host country while reflecting on their own learning. Students will conduct an introspective case study, keep a journal, and create a portfolio. May be taught concurrently with EEM 597. Cannot receive credit for both EEM 597 and EEM 607. 4(3-2), Su

**EEM 608 Post-Travel Seminar for Intensive Language and Cultural Experience for Educators**

Prerequisite: EEM 606 and EEM 607 and permission. Post-travel seminar deconstructs experience abroad. Students discuss strategies used as a learner and analyze effective teaching techniques. Participants compare cultural and language differences that teachers need to consider in teaching students in a new language. Introspective case study research and portfolios will be shared. May be taught concurrently with EEM 598. Cannot receive credit for both EEM 598 and EEM 608. 1(1-0), F

**EEM 676 Topical Issues in Education**

Prerequisite: permission. 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. May be taught concurrently with EEM 576. Cannot receive credit for both EEM 576 and EEM 676. 1-5, D

**EEM 796 Problems in Education**

Specific problems in education related to needs and interests of the student. May be repeated to a total of 3 hours. 1-3, D

**EEM 799 Thesis**

Prerequisite: ELE 711 and SFR 780 and permission. May be repeated to a maximum of 6 hours credit. 1-6, D

## Elementary Education Courses

**ELE 300 Service Learning in Elementary Education**

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 assignments is available from the instructor and the Citizenship and Service Learning Office. May be repeated. 1 D

#### **ELE 302 Introduction to Elementary Education and Clinical/Field Experience**

Prerequisite: attempted CBASE exam. 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 enroll in supervised teaching. 3(2-2) F,S

#### **ELE 400 Elementary Integrated Methods and Practicum**

Prerequisite: concurrent enrollment in PED 400 required when enrolling in ELE 400 for 2 hours; and SPE 310; and concurrent enrollment in 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. 2-3(1-3) D

#### **ELE 410 Teaching and Learning in the Elementary Classroom**

Prerequisite: admitted to Teacher Education Program. This course introduces approaches to instruction and assessment and supporting learning and motivation theories; physical, social, emotional, and cognitive characteristics of children; methods of designing instruction to meet diverse learner needs; and educator's professional code of ethical conduct. Required first portfolio checkpoint will occur in this course. 3(3-0) F,S

#### **ELE 425 Methods of Teaching Communication Arts in Elementary Schools**

Prerequisite: RDG 318; 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. 3(3-0) D

#### **ELE 429 Methods of Teaching of Mathematics in Elementary Schools**

Prerequisite: ELE 410 and MTH 320 and MTH 360 and RDG 420 and RDG 421; and admitted to Teacher Education Program. Emphasis upon diagnosis of skill level development, teaching basic mathematical skills, and individualizing instruction in mathematics for elementary and middle school programs. 3(3-0) F,S

#### **ELE 434 Methods of Teaching Science in Elementary Schools**

Prerequisite: ELE 410 and RDG 420 and RDG 421; and 8 hours of science (one biology and one physical science); and admitted to Teacher Education Program. Recommended Prerequisite: concurrent enrollment in GRY 240. Current issues and approaches in teaching elementary school science to children, including exceptional children who are mainstreamed in regular classrooms. 3(3-0) F,S

#### **ELE 438 Methods of Teaching Social Studies in Elementary Schools**

Prerequisite: ELE 410 and RDG 420 and RDG 421; 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. 3(3-0) F,S

#### **ELE 440 Classroom Management and Assessment in the Elementary Classroom**

Prerequisite: concurrent enrollment in ELE 429 and/or ELE 434 and/or ELE 438; and admitted to Teacher Education Program. Planning, constructing, using, and analyzing 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. 2(1-2) D

#### **ELE 458 Theory Into Practice**

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. 2(2-0) F,S

#### **ELE 495 Supervised Teaching (Elementary)**

Prerequisite: a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches under the direction of the cooperating teacher and university supervisor. Students participate in extra-curricular activities and attend both individual and group conferences. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

#### **ELE 496 Supervised Teaching (Elementary)**

Prerequisite: concurrent enrollment in ELE 495 or SEC 493 or SPE 495. Student observes then teaches under the direction of the cooperating teacher and university supervisor. Student participates in school-related activities and attends both individual and group conferences. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

#### **ELE 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval.

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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**ELE 500 Current Issues and Applications in Elementary Education**

Prerequisite: ELE 429 and ELE 434 and ELE 438 and RDG 420 and RDG 421. Application of current innovations and examination of contemporary issues facing elementary teachers including classroom management, inclusion, English language learners, integrated planning and instruction with art, music, health and physical education. A comprehensive field experience in area school classrooms is required. May be taught concurrently with ELE 600. Cannot receive credit for both ELE 600 and ELE 500. 3-5 F,S

**ELE 510 The Reflective Practitioner**

Prerequisite: ELE 429 and ELE 434 and ELE 438 and RDG 420 and RDG 421; and concurrent enrollment in ELE 500. Introduces students to action research as reflection on their own teaching and learning, and their students' learning and achievement. Requires an intensive field experience in area elementary school. May be taught concurrently with ELE 605. Cannot receive credit for both ELE 605 and ELE 510. 2(2-0) F,S

**ELE 600 Current Issues and Applications in Elementary Education**

Prerequisite: permission. Application of current innovations and examination of contemporary issues facing elementary teachers including classroom management, inclusion, English language learners, integrated planning and instruction with art, music, health and physical education. A comprehensive field experience in area school classrooms is required. May be taught concurrently with ELE 500. Cannot receive credit for both ELE 500 and ELE 600. 3-5, F,S

**ELE 601 Communication Arts Instruction in the Elementary School**

Prerequisite: ELE 302 and permission of Director of Graduate Program in consultation with the Teacher Certification and Compliance Office. 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. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning. Course limited to certification students only. 3(3-0), F,S

**ELE 602 Social Studies Instruction in the Elementary School**

Prerequisite: ELE 302 and permission of Director of Graduate Program in consultation with the Teacher Certification and Compliance Office. Current issues and approaches in teaching elementary school social studies to children including exceptional children who are mainstreamed in the regular classroom. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning and teaching. Course limited to certification students only. 3(3-0), F,S

**ELE 603 Mathematics Instruction in Elementary Schools**

Prerequisite: ELE 302 and permission of Director of Graduate Program in consultation with the Teacher Certification and Compliance Office. Emphasis upon diagnosis of skill level development, teaching basic mathematical skills, and individualizing instruction in mathematics for elementary and middle school programs. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning. Course limited to certification students only. 3(3-0), F,S

**ELE 604 Science Instruction in the Elementary School**

Prerequisite: ELE 302; and 10 hours of science (one course in biology, one course in physical science and one course in earth science); and permission of Director of Graduate Program in consultation with Teacher Certification and Compliance Office. Current issues and approaches in teaching elementary school science to children including exceptional children who are mainstreamed in the regular classroom. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning and teaching. Course limited to certification students only. 3(3-0), F,S

**ELE 605 The Reflective Practitioner**

Prerequisite: permission; and concurrent enrollment in ELE 600. Introduces students to action research as reflection on their own teaching and learning, and their students' learning and achievement. Requires an intensive field experience in area elementary school. May be taught concurrently with ELE 510. Cannot receive credit for both ELE 510 and ELE 605. 2(2-0), F,S

**ELE 710 Elementary School Curriculum**

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. 3(3-0), F

**ELE 711 Contemporary Issues in Elementary Curriculum**

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. 3(3-0), S,Su

**ELE 713 Advanced Theory and Practice in the Teaching of Communication Arts**

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. 3(3-0), F

**ELE 714 Advanced Theory and Practice in the Teaching of Social Studies**

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. 3(3-0), S

**ELE 715 Advanced Theory and Practice in the Teaching of Mathematics**

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. 3(3-0), S

**ELE 716 Advanced Theory and Practice in the Teaching of Science**

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. 3(3-0), F

**ELE 717 Advanced Theory and Practice in the Teaching of Economic Education**

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. 3(3-0), F

**ELE 720 Advanced Theory and Practice in Student Assessment and Evaluation**

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. 3(3-0), S

**ELE 721 Standards-Based Integrated Curriculum, Learning, and Teaching**

Analysis and application of current theories and research on integrated curriculum and learning, performance assessment, and standards-based education. Develop classroom, school-wide and/or district-wide curricula based on state standards. Focus is on deciding what is essential to teach and on improving learners' math and literacy skills across the curriculum. 3(3-0), F

**ELE 722 Differentiated Instruction for Early Childhood, Elementary, and Middle School**

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. 3(3-0), S

**ELE 772 Research Seminar in Elementary Education**

Prerequisite: ELE 711 and SFR 780. Guided development of a research paper or a creative project. 3(1-4), F,S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Education > Department of Counseling, Leadership, and Special Education

## Department of Counseling, Leadership, and Special Education

Park Central Office Building, Room 156, Phone: (417) 836-5392, Fax: (417) 836-5997

Website: <http://education.missouristate.edu/CLSE>

Department Head: Associate Professor Tamara J. Arthaud, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Jeffrey H.D. Cornelius-White, Psy.D.; Paris A. DePaepe, Ph.D.; Linda Garrison-Kane, Ph.D.; Cynthia MacGregor, Ed.D.; Belinda McCarthy, Ph.D.; Joye H. Norris, Ph.D.; Robert L. Watson, Ed.D.

**Associate Professors:** William J. Agnew, Ph.D.; Paul M. Ajuwon, Ph.D.; A. Leslie Anderson, Ph.D.; Paul Blisard, Ed.D.; O. Gilbert Brown, Ed.D.; Joseph F. Hulgus, Ph.D.; Gerald H. Moseman, Ed.D.; Kristi Perryman, Ph.D.

**Assistant Professor:** Kim K. Finch, Ed.D.; Jennifer L. Krawec, Ph.D.

**Instructors:** Julie Anderson-Ituarte, M.A.; Marcia B. Dowdy, Ed.D.; James C. Matthews, M.S.; Linda G. Robbins, Ed.S.

**Clinical Director (Counseling):** Robin Farris, M.A.

**Emeritus Professors:** Lonnie Barker, Jr., Ph.D.; Leon Bradshaw, Ed.D.; Ruth V. Burgess, Ph.D.; Harold L. Chappell, Ed.D.; Jane E. Doelling, Ed.D.; Paul D. Enochs, Ph.D.; Fred F. Esser, Ed.D.; Mildred Fortner, Ed.D.; Shirley Hendricks, Ed.D.; Kenneth C. Holloway, Ed.D.; C. Don Keck, Ed.D.; Robert L. Musgrave, Ed.D.; Billy Rippee, Ed.D.; Leonila P. Rivera, Ed.D.; Hugh L. Strawn, Ph.D.; Sandra K. Wegner, Ed.D.; Scott B. Wegner, Ed.D.; Gary Wilson, Ph.D.

### Accreditation

Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Counseling, M.S.; Educational Administration, M.S.Ed., Ed.S.; Special Education/Cross Categorical B.S.Ed.; Special Education, M.S.Ed.

### Mission Statement

The Department of Counseling, Leadership and Special Education strives to develop culturally competent and ethical leaders and scholars in counseling and life-long education who are actively engaged in community, state, national, and global affairs.

### Vision

The Department of Counseling, Leadership, and Special Education envisions a world in which children and adults seek opportunities for life-long learning, are confident and assured in their abilities to have a positive personal impact on the world, and serve as culturally competent citizens and leaders.

### Graduate Programs

The following graduate programs are available:

Counseling with options in Community Agency Counseling, Elementary School Counseling, and Secondary School Counseling (Master of Science); Educational Administration with options in Elementary and Secondary (Master of Science in Education); Special Education with options in Autism Spectrum Disorders, Development Disabilities, Orientation and Mobility, Special Education Alternative Certification, and Visual Impairment (Master of Science in Education); Educational Administration with options in Elementary Principal, Secondary Principal and Superintendent (Specialist in Education); Student Affairs in Higher Education (Master of Science); and a cooperative doctoral degree in Educational Leadership with the University of Missouri-Columbia.

#### Accelerated Master of Science in Education degree in Special Education with option in Autism Spectrum Disorders

Eligible Missouri State undergraduate students majoring in Special Education may apply for preliminary acceptance into the MSED Special Education/Autism Spectrum Disorders program after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take up to 12 hours of graduate level courses that apply to both their undergraduate and graduate programs (Mixed Credit). See the Graduate Catalog or further information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

Refer to the [Graduate Catalog](#) for more information.

**University Certificate (graduate):** Graduate level certificate programs are available in Autism Spectrum Disorders and in Orientation and Mobility. Refer to the Graduate Catalog for more information.

## General Information

**900-level EAD courses** are open only to students admitted into the Educational Leadership (Ed.D.) doctoral program offered in cooperation with the University of Missouri-Columbia.

**Supplemental Course Fee:** Selected sections of Counseling courses may have supplemental course fees.

## Majors

### Special Education/Cross Categorical

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree (see application procedures in the "Teacher Certification, Teacher Education Program" 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.

Additionally, State Board of Education certification rules require a passing score on each portion 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. Missouri State further requires C-BASE minimum scores of 265.

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. Recipients 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.

The Department of Counseling, Leadership, and Special Education reserves the right to refuse enrollment or program continuation to any student for whom the special education faculty feel does not possess the ability to successfully complete the required classes and/or required practica.

All special education undergraduate students and post-baccalaureate students seeking special education certification are expected to display professional behaviors and dispositions consistent with the National Council for Exceptional Children's Code of Ethics for Educators of Persons with Exceptionalities. Periodic structured assessments of professional behaviors and dispositions will be completed on all students during selected classes and will also be completed in additional classes on an as needed basis. If a student does not display the required professional behaviors and dispositions as determined by the special education faculty and the Department Head of Counseling, Leadership, and Special Education, the student may be dismissed from the program or may be prevented from taking additional special education certification classes.

### Special Education/Cross Categorical

Bachelor of Science in Education  
(Certifiable grades K-12)

A. General Education Requirements - see **General Education Program and Requirements** section of catalog (43-51 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):

1. Mathematics: MTH 320(3)
2. English: ENG 334
3. Geography: GRY 100(3)

C. Professional Education (75 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), 345(4), 346(2)
2. Teaching Methods: CSD 312(3); EDT 365(3); PED 545(3); RDG 318(3), 420(3), 421(2); SPE 515(3), 516(3), 517(5), 519(4), 521(4), 550(3), 560(3)
3. Clinical Experiences: SPE 520(2), 522(2), 495(5-6), 496(5-6)

D. Specific Requirements for Bachelor of Science in Education degree - see **Degrees, Programs and Requirements** section of



catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Counseling Courses

### **COU 700 Problems in Counseling**

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. 1-3, F,S

### **COU 701 Tests and Measurements for Counselors**

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. 3(3-0), D

### **COU 702 School Counseling Foundations and Ethics**

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. 3(3-0), D

### **COU 703 Community Agency Counseling Foundations and Ethics**

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. 3(3-0), D

### **COU 705 Orientation to Personal and Professional Development**

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. 3(3-0), D

### **COU 707 Human Development and Personality**

Study of child, adolescent and adult psychological development theories, normal adjustment processes, personality structure, and abnormal behavior. 3(3-0), D

### **COU 708 Child Counseling Theories and Techniques**

Prerequisite: admission to the Counseling elementary program option; and COU 702 or COU 703; and COU 705 and COU 710 and COU 711. 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. 3(3-0), D

### **COU 710 The Helping Relationship**

Prerequisite: admission to Counseling program; and concurrent enrollment in COU 711. 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. 2(2-0), D

### **COU 711 The Helping Relationship Lab**

Prerequisite: admission to Counseling program. First enrollment must be concurrent with COU 710. Designed to accompany COU 710, 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. Repeatable to 3 credit hours. Graded Pass/Not Pass only. 1(0-3), D

### **COU 714 Diversity and Multicultural Issues in Counseling**

Prerequisite: admission to Counseling program. 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. 3(3-0), D

### **COU 724 Appraisal and Clinical Interviewing**

Prerequisite: admission to Counseling program; and COU 710 and COU 711. 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. 3(3-0), D

### **COU 733 Couple and Family Counseling**

Prerequisite: admission to Counseling program; and COU 710 and COU 711. 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. 3(2-2), D

### **COU 751 Theories and Techniques of Counseling**

Prerequisite: admission to Counseling program; and COU 705; and either COU 702 or COU 703. 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. 3(3-0), D

### **COU 752 Career Development**

Prerequisite: admission to Counseling program; and COU 710 and COU 711. A consideration of the various theories of career development and their implications in counseling for vocational 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. 3(3-0), F,S

**COU 753 Analysis of Childhood Learning and Adjustment**

Prerequisite: admission to Counseling program and COU 701. Acquaints student with various assessment and diagnostic procedures in evaluation of learning and adjustment problems. 3(3-0), D

**COU 756 Group Counseling**

Prerequisite: admission to Counseling program; and COU 780 or COU 782 or COU 784. Acquaints counselors with group counseling theories and techniques. Includes an experiential group component. 3(3-0), D

**COU 757 Elementary Group Counseling Through Play**

Prerequisite: admission to Counseling program or permission of instructor; and COU 705 and COU 708 and COU 710 and COU 711 and COU 782. Introduction to group therapy methods and techniques appropriate to an elementary school setting. Emphasis is placed upon foundational group therapy skills in general, and on play therapy modalities in particular, that are appropriate for elementary-age children. Groups in an elementary setting, utilizing Missouri Comprehensive Guidance and play therapy and applications to diverse populations, will be emphasized. 3(3-0) D

**COU 765 Research Seminar in Counseling**

Prerequisite: admission to Counseling program and SFR 780. The study, analysis, and discussion of special topics culminating in a substantial written report. Preparation of a Professional Portfolio. Graded Pass/Not Pass only. 3(3-0), D

**COU 780 Secondary School Counseling Practicum**

Prerequisite: admission to Counseling program; and COU 710 and COU 751 each with grade of B or better; and COU 711; 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. 3(0-6), F,S

**COU 781 Secondary School Counseling Internship**

Prerequisite: admission to Counseling program; and either COU 780 or COU 784; 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. May be repeated up to 9 hours. Graded Pass/Not Pass only. Supplemental course fee. 3(1-10), F,S

**COU 782 Elementary School Counseling Practicum**

Prerequisite: admission to Counseling program; and COU 708 and COU 710 each with grade of B or better; and COU 711; 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. 3(0-6), S

**COU 783 Elementary School Counseling Internship**

Prerequisite: admission to Counseling program; and COU 782; 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. May be repeated up to 9 hours. Graded Pass/Not Pass only. Supplemental course fee. 3(1-10), F,S

**COU 784 Community Agency Counseling Practicum**

Prerequisite: admission to Counseling program; and COU 710 and COU 751 each with grade of B or better; and COU 711; 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. 3(0-6), D

**COU 785 Community Agency Counseling Internship**

Prerequisite: admission to Counseling program; and either COU 780 or COU 784; 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. 3(3-0), D

**COU 786 School Psychological Examiner Practicum**

Prerequisite: COU 701 and COU 753 and PSY 720. 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 settings. Graded Pass/Not Pass only. Supplemental course fee. 3(3-0), D

**COU 788 Introduction to Supervision, Consultation and Leadership**

Prerequisites: COU 710 and COU 711; and COU 780 or COU 782 or COU 784; and admission to Counseling program or departmental permission. This course is designed to address fundamental theoretical and applied aspects of clinical supervision, consultation, and leadership. Supervision addresses the theory and practice of clinical supervision in counseling and psychotherapy and provides a supervised, practical experience of doing counseling supervision in an applied setting. Consultation focuses on providing consultation services in schools and other systems. Since counselors and psychotherapists are often called upon within schools and agencies to provide leadership, the leadership component of this course surveys the literature on leadership styles, roles, and emerging trends. 3(3-0) D

**COU 790 Counseling Workshop**

Improves skills and knowledge of counselors in specific areas. Each workshop considers a single topic in depth. 30 hours of participation equal one semester hour. 1-3, F,S

**COU 794 Introduction to Research in Counseling**

Prerequisite: admission to Counseling program. Introduction to research methods in counseling, including quantitative and

qualitative methods, action research, and program evaluation approaches, particularly in service-delivery settings. An emphasis is placed on developing an understanding of foundational research methods that will allow students to be effective critical consumers of research in counseling and prepare them to design and implement sound program evaluations. 3(3-0) D

#### **COU 795 Topics in Counseling**

Individual or group class designated to address specialized topics of interest to graduate students in counseling. May be repeated to 9 credit hours. 1-3, D

#### **COU 799 Thesis**

Independent research and study connected with preparation of thesis. 1-6, F,S

### **Educational Administration Courses**

#### **EAD 721 Introduction to Student Affairs**

An introductory course designed for the student pursuing a career in Student Affairs. This course explores the origin, history, philosophy, theory, and practice related to the Student Affairs profession. 3(3-0), F

#### **EAD 723 Student Development Theory**

Prerequisite: admission to the Student Affairs in Higher Education program. Introduces the student to student development theories. A basic understanding allows the student to note application of these theories to practice. This will result in Student Affairs professional who can design approaches that work most effectively with students. 3(3-0), F

#### **EAD 726 Higher Education in the United States**

Prerequisite: admission to the Student Affairs in Higher Education program. The historical development of American higher education will be presented. Political, social, economic, and intellectual issues will be examined from its inception to the present day for contemporary application. A focus will be on the matrix of trend, topics, and eras. An emphasis is placed on higher education in the post World War II era creating a solid background of higher education in the last 50 years. 3(3-0), F

#### **EAD 729 Foundations of Research**

Prerequisite: admission to the Student Affairs in Higher Education program. Students will acquire and use research methods skills. These skills will be put to use in preparing a research proposal, reviewing empirically-based journal articles, formulating hypotheses, designing observational studies, and analyzing and interpreting data. 3(3-0), S

#### **EAD 732 Leadership and Administration in Higher Education**

Prerequisite: admission to Student Affairs in Higher Education program. Students will be provided with the opportunity to develop a firm working concept of leadership theories and principles. Upon completion of the course, students should be able to identify and discuss the role of leadership in student affairs, and be able to apply those leadership principles to activities in their job. 3(3-0), S

#### **EAD 735 Governance and Finance in Higher Education**

Prerequisite: admission to the Student Affairs in Higher Education program. Exposure of the student to theoretical and applied concepts of governance and finance structures in higher education. Emphasis will be on organizational structures, financial operations, terminology, successful administrative/management practices, and models prevalent in higher educational settings. 3(3-0), F

#### **EAD 738 Legal and Ethical Issues in Student Affairs**

Prerequisite: admission to the Student Affairs in Higher Education program. Introduction to the basic and current legal and ethical concepts that face American colleges and universities today. Topics to be discussed include the basis from which higher education law is formed; current case, state, and regulatory laws; personnel issues; and risk management and liability issues for higher education. 3(3-0), F

#### **EAD 747 Supervised Practice**

Prerequisite: admission to the Student Affairs in Higher Education program. Students will earn academic credit for completion of two practica working in Student Affairs departments. Knowledge accumulated in coursework will be applied to the work setting. Experiences are cooperatively planned and guided by university personnel. May be repeated one time for a maximum of 6 hours. 3(3-0), S

#### **EAD 748 Special Projects: Reflective Moments in Higher Education and Student Affairs**

Prerequisite: admission to the Student Affairs in Higher Education program. The primary objective of this class is to provide students who are full-time employees at either MSU or area institutions an alternative to the traditional six-hour supervised practice requirement that most cohort students complete through EAD 747, Supervised Practice. Similar to EAD 747, Supervised Practice, students will complete two sections of the class (six hours) distributed over two semesters. Under the direction of the instructor, students will complete an extensive seminar/degree paper that enhances the student's graduate program portfolio requirement. May be repeated one time to a maximum of six hours. 3(3-0) S,Su

#### **EAD 749 Student Outcomes**

Prerequisite: admission to the Student Affairs in Higher Education program. Fostering undergraduates' success inside and outside of the classroom is a byproduct of academic and student affairs collaboration. The aim of the course is to help new professionals understand the outcomes of student success. 3(3-0), S

#### **EAD 751 Foundations of Educational Leadership**

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 751 is the first course to be taken in an administration degree program. 3(3-0), D

#### **EAD 752 The Secondary School Principal**

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. 3(3-0), D

**EAD 753 The Elementary School Principal**

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. 3(3-0), D

**EAD 754 State and National School Leadership**

Role and responsibilities of the local, state and federal agencies in school administration. 2(2-0), D

**EAD 755 Graduating Underrepresented First-Generation College Students**

The objective of this class is to help students gain frameworks and skills to help them collaborate with K-12 educators and parents to expand the pool of talented low income students from rural and metropolitan areas who attend and graduate from selective public universities in the state. Students will acquire academic advising frameworks and boundary spanning values essential for interacting with middle school/high school students/parents, teachers/high school counselors. 3(3-0), Su

**EAD 756 Qualitative Research in Higher Education**

Prerequisite: admission to the Student Affairs in Higher Education program. This seminar is placed at the crossroads of higher education and anthropology. Seminar participants will use the discipline of educational anthropology as a way of examining the higher education enterprise in general and college students in particular. This anthropological lens allows us to view issues in new ways, realizing alternatives we might not otherwise have considered. Culture is at the heart of this anthropological lens, which we will use to enrich understanding of educational phenomena. The elusive nature of culture necessitates that we explore many different ways in which the term culture is used in scholarly discourses in the hope that such exploration will deepen our theoretical and practical understanding of the relationships between higher education and culture. 3(3-0), S

**EAD 757 Quantitative Methods in Educational Leadership**

Prerequisite: admission to the Student Affairs in Higher Education program. General introduction to quantitative methods of data analysis. Develop concepts of measurement, design, and analysis. The focus is on statistical inference using various quantitative methods to investigate different types of educational problems. 3(3-0), Su

**EAD 759 Leadership Capstone**

Prerequisite: EAD 788 or SFR 780. The culminating course in the Educational Administration 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. 3(3-0), D

**EAD 771 Capstone Seminar**

Prerequisite: admission to Student Affairs in Higher Education program. This professional seminar is designed to promote the integration of the core curriculum and practitioner experiences of the master's program in student affairs administration, and to prepare students for the transition to a professional Student Affairs position following completion of the degree. 3(3-0), S

**EAD 780 Administration of Instructional Programs**

An analysis of instructional programs and the role of the school administrator in developing learner-centered school cultures and supporting research-based instruction. 3(3-0), D

**EAD 781 Organizational Management**

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. 3(3-0), D

**EAD 782 Internship-On Site**

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. Supplemental course fee. 2, D

**EAD 783 Internship-Related Agencies**

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.) Supplemental course fee. 1, D

**EAD 784 Human Relations and Collaborative Processes**

Designed to develop skills in effective interpersonal skills, written and oral communication within a diverse cultural community. 3(3-0), D

**EAD 785 Legal and Ethical Contexts of Schooling**

Explores the statutory and regulatory requirements as well as the ethical implications of policy initiatives inherent in the effective operation of a school. 3(3-0), D

**EAD 786 School Supervision and Performance Enhancement**

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.) 3(3-0), D

**EAD 787 Administration of Special Programs**

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. 3(3-0), D

**EAD 788 Action Research in Educational Leadership**

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. 3(3-0), D

#### **EAD 799 Thesis**

Prerequisite: EAD 788 and SFR 780. Independent research and study connected with preparation of thesis. May be repeated to a maximum of 6 hours credit. 1-6, D

#### **EAD 841 Advanced Issues in School Improvement**

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. 3(3-0), D

#### **EAD 842 Modern Trends in Educational Administration**

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. 3(3-0), D

#### **EAD 843 School and Community Partnerships**

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. 3(3-0), D

#### **EAD 844 Leadership in Professional Development**

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. 3(3-0), D

#### **EAD 850 Politics of Education**

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. 3(3-0), D

#### **EAD 858 School Personnel**

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. 3(3-0), D

#### **EAD 860 Field Study**

Prerequisite: EAD 895. 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 degree. 1-4, D

#### **EAD 861 Human Relations**

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. 3(3-0), D

#### **EAD 862 The Superintendency**

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. 3(3-0), D

#### **EAD 863 Curriculum Design and Evaluation**

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. 3(3-0), D

**EAD 864 School and Community Relations**

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. 3(3-0), D

**EAD 865 School Law**

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. 3(3-0), D

**EAD 866 Public School Finance**

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. 3(3-0), D

**EAD 867 School Plant Planning and Maintenance**

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. 3(3-0), D

**EAD 870 Specialized Topics in Educational Leadership**

Designed to upgrade the school administrator or leader's knowledge and skills in specialized areas of current interest and need. Variable Content Course. Supplemental course fee assessed for sections titled First Things First and Seven Habits of Highly Effective People. May be repeated to a total of 6 hours. 1-3, D

**EAD 882 Superintendency Internship**

Problem-based field experiences at the superintendency level. Students spend specified periods of time working with experienced administrative personnel. 2, D

**EAD 895 Research in Administrative Practice**

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. 3(3-0), D

**EAD 901 Leadership Theory and Practice**

Prerequisite: admission to the Doctorate in Educational Leadership program. 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. 4(4-0), FO

**EAD 902 Quantitative Methods in Educational Research I**

Prerequisite: admission to the Doctorate in Educational Leadership program; and concurrent enrollment in EAD 903. 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. 3(3-0), SE

**EAD 903 Leadership Inquiry II**

Prerequisite: admission to the Doctorate in Educational Leadership program; and concurrent enrollment in EAD 902. 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. 1(1-0), SE

**EAD 904 Content and Context of Learning**

Prerequisite: admission to the Doctorate in Educational Leadership program; and concurrent enrollment in EAD 905. 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. 3(3-0), D

**EAD 905 Leadership Inquiry III**

Prerequisite: admission to the Doctorate in Educational Leadership program; and concurrent enrollment in EAD 904. 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. 1(1-0), D

#### **EAD 906 Leadership Inquiry IV**

Prerequisite: admission to the Doctorate in Educational Leadership program; and concurrent enrollment in EAD 907. 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. 1(1-0), D

#### **EAD 907 Program Planning and Evaluation**

Prerequisite: admission to the Doctorate in Educational Leadership program; and concurrent enrollment in EAD 906. Explores 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. 3(3-0), D

### **Special Education Courses**

#### **SPE 300 Service Learning in Special Education**

Prerequisite: 30 hours and concurrent registration in SPE 310 or SPE 340 or SPE 715. 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. 1 F,S

#### **SPE 306 Integrating the Arts for Students with Disabilities**

Prerequisite: SPE 310 and SPE 320 and SPE 345 and SPE 346; concurrent enrollment with SPE 519 or SPE 521 or SPE 619 or SPE 621 required. Focuses 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. 2(2-0) F,S

#### **SPE 310 Introduction to Special Education**

Prerequisite: EDC 150, and an initial C-Base taken. Focuses 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. 3(3-0) F,S

#### **SPE 320 Introduction to Teaching Cross Categorical Special Education**

Prerequisite: SPE 310 or concurrent enrollment. Focuses 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/intellectual disabilities, developmental disabilities, behavior disorders/emotional disturbance, and learning disabilities. 3(3-0) F

#### **SPE 340 Educational Alternative for Exceptional Students**

Prerequisite: admitted to Teacher Education Program. Provides 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 310 core requirement in the special education major or minor. 2(2-0) F,S

#### **SPE 345 Educational Evaluation of Exceptional Students**

Prerequisite: SPE 310; and concurrent enrollment in SPE 346; and admitted to Teacher Education Program. Focuses 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. Content will address norm-referenced and curriculum-based assessment procedures, including curriculum-based measurement. 4(4-0) F,S

#### **SPE 346 Educational Evaluation of Exceptional Students Lab**

Prerequisite: SPE 310; and concurrent enrollment in SPE 345; 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. Supplemental course fee. 2(0-4) F,S

#### **SPE 450 Methods of Teaching Mathematics to Exceptional Individuals**

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. 3(3-0) F,S

#### **SPE 460 Curriculum Materials for Exceptional Students**

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. 2(1-2) S



**SPE 480 Problems in Special Education**

Prerequisite: permission of instructor. 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. 1-5 D

**SPE 491 Practicum-Teaching Individuals with Behavior Disorders/Emotional Disturbance**

Prerequisite: concurrent enrollment in SPE 581 or SPE 661; 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. 2(0-4) S

**SPE 492 Practicum-Teaching Individuals with Learning Disabilities**

Prerequisite: concurrent enrollment in SPE 582 or SPE 662; 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. 2(0-4) F

**SPE 493 Practicum-Teaching Individuals with Mental Retardation/Developmental Disabilities**

Prerequisite: concurrent enrollment in SPE 583 or SPE 663; 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. 2(0-4) S,Su

**SPE 495 Supervised Teaching-Special Education**

Prerequisite: SPE 519 or SPE 619; and SPE 521 or SPE 621; grade of C or better in all professional education courses; current pre-professional liability insurance; and approval for student teaching. Student observes, teaches and participates in professional activities under the direction of the cooperating teacher and the University supervisor. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final checkpoint criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**SPE 496 Supervised Teaching-Special Education**

Prerequisite: concurrent enrollment in 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final checkpoint criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**SPE 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**SPE 502 Early Intervention for Young Children with Autism**

Prerequisite: permission of 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. May be taught concurrently with SPE 602. Cannot receive credit for both SPE 602 and SPE 502. 1(1-0) D

**SPE 504 In-District Autism Consultant Training**

Prerequisite: current Missouri teaching certification. 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. May be taught concurrently with SPE 604. Cannot receive credit for both SPE 604 and SPE 504. 1(1-0) D

**SPE 505 Braille Reading and Writing I**

Prerequisite: permission of instructor. This online course has been designed to enable teachers of children and youth with visual impairments develop basic competencies in reading and writing literary Braille, prepare correctly formatted Braille material, and have an awareness and basic understanding of the Nemeth codes for math and science for students grades K-12. Students will employ the use of the Perkins Braille Writer, slate and stylus, Perky Duck, and Duxbury translation software to produce high quality Braille material. 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. 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. Instructor and/or site based facilitators will provide monthly face to face instruction to students whenever possible. Students must complete SPE 505 and SPE 611 to achieve mastery of literary Braille code. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 605. Cannot receive credit for both SPE 605 and SPE 505. 3(3-0) F

**SPE 506 Principles of Orientation and Mobility**

Prerequisite: permission of instructor. This course focuses on the history, philosophy, and ethics of orientation and mobility. Participants will also consider various consumer driven approaches in orientation and mobility. The course will give the teacher of the visually impaired the ability to perform and monitor basic techniques of orientation and mobility as used by students who are blind, visually impaired, or multi-handicapped. Students will be required to create a video record of their blindfold and other sensory experiences to illustrate their skill development. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 606. Cannot receive credit for both SPE 606 and SPE 506. 3(3-0) Su

**SPE 507 Introduction to Visual Impairments, Autism and Severe/Multiple Disabilities**

Prerequisite: permission of instructor. An introduction to educational programs and services for students with visual impairments, autism, deaf-blindness and multiple disabilities. This course will provide teachers, paraprofessionals, social workers, psychologists, etc. with a foundation in the historical perspectives, developmental characteristics, psychosocial aspects, and legislation related to severe and multiple disabilities. An emphasis will be placed on the psychosocial effects of visual impairments, autism, deaf-blindness and multiple disabilities on the development of the individual and on adaptations that enhance functioning. May be taught concurrently with SPE 607. Cannot receive credit for both SPE 607 and SPE 507. 3(3-0) F

**SPE 508 Low Vision, Anatomy and Physiology of the Eye**

Prerequisite: permission of instructor. This online course will introduce teachers, rehabilitation specialists and others to practical applications of low vision techniques. The students will use low vision simulators to perceive, integrate and react to different environmental stimuli. Sections of the course will involve clinical low vision examinations. Analysis 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. Also, the course will address a full array of eye diseases and conditions and the educational implications. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 608. Cannot receive credit for both SPE 608 and SPE 508. 3(3-0) Su

**SPE 510 Physical and Health Needs of Students with Disabilities**

Prerequisite: SPE 345 and SPE 346; and admitted to Teacher Education Program. Focuses 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. May be taught concurrently with SPE 613. Cannot receive credit for both SPE 613 and SPE 510. 3(3-0) F

**SPE 515 Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings**

Prerequisite: admission to the Teacher Education Program. Focuses on the foundational principles of applied behavior analysis. Emphasis will be placed on the development of positive behavior support plans that proactively assist students with challenging behavior in applied and/or school settings. May be taught concurrently with SPE 616. Cannot receive credit for both SPE 616 and SPE 515. 3(3-0) D

**SPE 516 Application of Applied Behavior Analysis and Interventions for Teachers in Applied Settings**

Prerequisite: SPE 515. Focuses on the application of applied behavior analysis principles within school-based settings. Students will complete functional analysis/assessment on children and youth with disabilities and employ science based instruction strategies in school settings. May be taught concurrently with SPE 618. Cannot receive credit for both SPE 618 and SPE 516. 3(2-2) D

**SPE 517 Effective Practices in Special Education**

Prerequisite: SPE 310 or SPE 340; and SPE 345 and SPE 346. Empirically based teaching practices with emphasis on reading and mathematics foundations to support special needs learners. Students will also gain knowledge of varied theoretical perspectives and instructional approaches including validated behavioral and cognitive based methods that support diverse learners. The content of the course will also include activities to support determination of present level of performance and placement in special and general education curricula per IDEA and other Federal mandates. May be taught concurrently with SPE 617. Cannot receive credit for both SPE 617 and SPE 517. 5(5-0) D

**SPE 519 Methods of Teaching Students with Learning and Behavioral Disorders**

Prerequisite: SPE 320 and SPE 345 and SPE 346 and SPE 515; and concurrent enrollment in SPE 520; and admitted to Teacher Education Program. Focuses on the application of theoretical perspectives and research-based methods of teaching students with learning disabilities or emotional and behavior disturbances. Evaluation procedures appropriate to analysis of academic achievement, social behavior, monitoring achievement, and behavioral change will be emphasized along with educational programming that promotes increasing achievement levels, improved social development, and inclusion. May be taught concurrently with SPE 619. Cannot receive credit for both SPE 619 and SPE 519. 4(4-0) D

**SPE 520 Practicum-Teaching Individuals with Learning and Behavioral Disorders**

Prerequisite: concurrent enrollment in SPE 519 and admitted to Teacher Education Program. Students will apply skills from introductory and specialized courses in settings with students with learning disabilities and behavioral disorders. 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. May be taught concurrently with SPE 620. Cannot receive credit for both SPE 620 and SPE 520. 2(0-4) D

**SPE 521 Methods of Teaching Individuals with Developmental Disabilities and Other Health Impairments**

Prerequisite: SPE 345 and SPE 346; and SPE 515 or concurrent enrollment in SPE 515; and concurrent enrollment in SPE 522; and admitted to Teacher Education Program. Stresses application of theoretical perspectives and research-based methods for individuals with developmental disabilities (i.e., mental retardation autism, Asperger syndrome, cerebral palsy) who may have associated orthopedic and health impairments (e.g., ADHD and epilepsy). 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, accommodations, and programming for integration in school, community, and vocational settings. May be taught concurrently with SPE 621. Cannot receive credit for both SPE 621 and SPE 521. 4(4-0) D

**SPE 522 Practicum-Instruction of Students with Developmental Disabilities and Other Health Impairments**

Prerequisite: concurrent enrollment in SPE 521 and admitted to Teacher Education Program. Students will apply skills from



introductory and specialized courses in settings with students with developmental disabilities (e.g., mental retardation, autism, Asperger syndrome, cerebral palsy) and orthopedic and health impairments (e.g., ADHD, epilepsy). 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. May be taught concurrently with SPE 622. Cannot receive credit for both SPE 622 and SPE 522. 2(0-4) D

#### **SPE 523 Curriculum and Methods in Early Childhood Special Education**

Prerequisite: permission of area advisor in Special Education or Early Childhood. Focuses 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. May be taught concurrently with SPE 623. Cannot receive credit for both SPE 623 and SPE 523. 4(3-2) D

#### **SPE 525 Introduction to Teaching and Assessing Students with Autism Spectrum Disorders**

Prerequisite: permission of instructor. This course will support individuals across various disciplines who wish to gain knowledge of identification, assessment, and programming for individuals on the Autism Spectrum. Conditions associated with ASD will be examined along with etiology, prevalence, and assessment issues. Students will apply knowledge through review of, and practice with, various norm referenced and informal instruments and rating scales specific to ASD. Emphasis will also be placed on validated programming for ASD. May be taught concurrently with SPE 625. Cannot receive credit for both SPE 625 and SPE 525. 3(3-0) D

#### **SPE 526 Applied Behavioral Analysis for Developmental Disabilities and Autism Spectrum Disorders**

Prerequisite: SPE 515; and SPE 516 or PSY 508. The evolution of science based practices for students with developmental disabilities and autism spectrum disorders are still emerging within the field of education. The purpose of this course is to train teachers and/or care providers to identify science based practices within applied behavior analysis and apply these principles to students with developmental disabilities and autism spectrum disorders within applied settings. This course will focus on the use of operant behavioral techniques with an emphasis on functional analysis and functional communication training. Students will conduct clinical and school-based assessments and interventions with school age children diagnosed with developmental disabilities and autism spectrum disorders. May be taught concurrently with SPE 626. Cannot receive credit for both SPE 626 and SPE 526. 3(2-2) D

#### **SPE 527 Seminar in Developmental and Sensory Disabilities**

Prerequisite: SPE 507 or SPE 525 or equivalent. This course is designed to provide practitioners with the knowledge and skills to implement research based practices for individuals with developmental disabilities including autism spectrum disorders (ASD). The course will also address issues specific to sensory integration, visual impairments, and significant cognitive delays. Students will examine in depth, approaches and models validated to support present level of performance needs for individuals with a variety of developmental and sensory requirements. Students will complete lecture hours where theoretical perspectives and the detailed components of various treatments are examined. In a corresponding field component, students will implement an applied project that will address the sensory, communication, learning, and social needs of a client who has been identified with multiple developmental delays. Measurement of outcomes specific to treatment plans will be a significant component of the applied activities. May be taught concurrently with SPE 627. Cannot receive credit for both SPE 627 and SPE 527. 3(2-2) D

#### **SPE 550 Career/Vocational Education and Transition**

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. May be taught concurrently with SPE 650. Cannot receive credit for both SPE 650 and SPE 550. 3(3-0) F,S

#### **SPE 556 Topical Issues in Special Education**

Prerequisite: permission of instructor. 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. May be taught concurrently with SPE 656. Cannot receive credit for both SPE 656 and SPE 556. 1-5 D

#### **SPE 560 Working with Families of Exceptional Individuals**

Recommended Prerequisite: SPE 310. 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. May be taught concurrently with SPE 660. Cannot receive credit for both SPE 660 and SPE 560. 3(3-0) F,S

#### **SPE 581 Methods of Teaching Individuals with Behavior Disorders/Emotional Disturbance**

Prerequisite: 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. May be taught concurrently with SPE 661. Cannot receive credit for both SPE 661 and SPE 581. 3(3-0) S

#### **SPE 582 Methods of Teaching Individuals with Learning Disabilities**

Prerequisite: SPE 345 and SPE 346 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. May be taught concurrently with SPE 662. Cannot receive credit for both SPE 662 and SPE 582. 3(3-0) F

#### **SPE 583 Methods of Teaching Individuals with Mental Retardation/Developmental Disabilities**

Prerequisite: SPE 345 and SPE 346 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. May be taught concurrently with SPE 663. Cannot receive credit for both SPE 663 and SPE 583. 3(3-0) S,Su

**SPE 584 Language Development of Exceptional Students**

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. May be taught concurrently with SPE 664. Cannot receive credit for both SPE 664 and SPE 584. 3(3-0) F,S

**SPE 587 Introduction to the Education of Students with Behavior Disorders**

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. May be taught concurrently with SPE 667. Cannot receive credit for both SPE 667 and SPE 587. 3(3-0) F

**SPE 590 Approaches in Mainstreaming Exceptional Students**

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. May be taught concurrently with SPE 670. Cannot receive credit for both SPE 670 and SPE 590. 3(3-0) D

**SPE 591 Clinical Practicum in Special Education**

Prerequisite: permission of instructor. 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. In addition, this course is utilized for credit hours toward an Internship in Orientation and Mobility and Internship in Visual Impairment. See instructor for specific requirements. May be taught concurrently with SPE 671. Cannot receive credit for both SPE 671 and SPE 591. 1-3 D

**SPE 602 Early Intervention for Young Children with Autism**

Prerequisite: permission of instructor. 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. May be taught concurrently with SPE 502. Cannot receive credit for both SPE 502 and SPE 602. 1(1-0) D

**SPE 604 In-District Autism Consultant Training**

Prerequisite: current Missouri teaching certification or permission of 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. May be taught concurrently with SPE 504. Cannot receive credit for both SPE 504 and SPE 604. 1(1-0) D

**SPE 605 Braille Reading and Writing I**

Prerequisite: permission of instructor. This online course has been designed to enable teachers of children and youth with visual impairments develop basic competencies in reading and writing literary Braille, prepare correctly formatted Braille material, and have an awareness and basic understanding of the Nemeth codes for math and science for students grades K-12. Students will employ the use of the Perkins Braille Writer, slate and stylus, Perky Duck, and Duxbury translation software to produce high quality Braille material. 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. 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. Instructor and/or site based facilitators will provide monthly face to face instruction to students whenever possible. Students must complete SPE 505 and SPE 611 to achieve mastery of literary Braille code. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 505. Cannot receive credit for both SPE 505 and SPE 605. 3(3-0), F

**SPE 606 Principles of Orientation and Mobility**

Prerequisite: permission of instructor. This online course focuses on the history, philosophy, and ethics of orientation and mobility. Participants will also consider various consumer driven approaches in orientation and mobility. The course will give the teacher of the visually impaired the ability to perform and monitor basic techniques of orientation and mobility as used by students who are blind, visually impaired, or multi-handicapped. Students will be required to create a video record of their blindfold and other sensory experiences to illustrate their skill development. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 506. Cannot receive credit for both SPE 506 and SPE 606. 3(3-0), Su

**SPE 607 Introduction to Visual Impairments, Autism and Severe/Multiple Disabilities**

Prerequisite: permission of instructor. An introduction to educational programs and services for students with visual impairments, autism, deaf-blindness and multiple disabilities. This course will provide teachers, paraprofessionals, social workers, psychologists, etc. with a foundation in the historical perspectives, developmental characteristics, psychosocial aspects, and legislation related to severe and multiple disabilities. An emphasis will be placed on the psychosocial effects of visual impairments, autism, deaf-blindness and multiple disabilities on the development of the individual and on adaptations that enhance functioning. May be taught concurrently with SPE 507. Cannot receive credit for both SPE 507 and SPE 607. 3(3-0), F

**SPE 608 Low Vision, Anatomy and Physiology of the Eye**

Prerequisite: permission of instructor. This online course will introduce teachers, rehabilitation specialists and others to practical applications of low vision techniques. The students will use low vision simulators to perceive, integrate and react to different

environmental stimuli. Sections of the course will involve clinical low vision examinations. Analysis 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. Also, the course will address a full array of eye diseases and conditions and the educational implications. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 508. Cannot receive credit for both SPE 508 and SPE 608. 3(3-0), Su

**SPE 613 Physical and Health Needs of Students with Disabilities**

Prerequisite: SPE 715. Focuses 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. May be taught concurrently with SPE 510. Cannot receive credit for both SPE 510 and SPE 613. 3(3-0), F

**SPE 616 Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings**

Prerequisite: admission to the Special Education Program. Focuses on the foundational principles of applied behavior analysis. Emphasis will be placed on the development of positive behavior support plans that proactively assist students with challenging behavior in applied and/or school settings. May be taught concurrently with SPE 515. Cannot receive credit for both SPE 616 and SPE 515. 3(3-0), D

**SPE 617 Effective Practices in Special Education**

Prerequisite: SPE 715 and SPE 782 and SPE 792. Empirically based teaching practices with emphasis on reading and mathematics foundations to support special needs learners. Students will also gain knowledge of varied theoretical perspectives and instructional approaches including validated behavioral and cognitive based methods that support diverse learners. The content of the course will also include activities to support determination of present level of performance and placement in special and general education curricula per IDEA and other Federal mandates. May be taught concurrently with SPE 517. Cannot receive credit for both SPE 517 and SPE 617. 5(5-0), D

**SPE 618 Application of Applied Behavior Analysis and Interventions for Teachers in Applied Settings**

Prerequisite: SPE 616. Focuses on the application of applied behavior analysis principles within school-based settings. Students will complete functional analysis/assessment on children and youth with disabilities and employ science based instruction strategies in school settings. May be taught concurrently with SPE 516. Cannot receive credit for both SPE 516 and SPE 618. 3(2-2), D

**SPE 619 Methods of Teaching Students with Learning and Behavioral Disorders**

Prerequisite: SPE 320 and SPE 345 and SPE 346 and SPE 616; and concurrent enrollment in SPE 620; and Teacher Certification students must be admitted to Teacher Education Program. Focuses on the application of theoretical perspectives and research-based methods of teaching students with learning disabilities or emotional and behavior disturbances. Evaluation procedures appropriate to analysis of academic achievement, social behavior, monitoring achievement, and behavioral change will be emphasized along with educational programming that promotes increasing achievement levels, improved social development, and inclusion. May be taught concurrently with SPE 519. Cannot receive credit for both SPE 519 and SPE 619. 4(4-0), D

**SPE 620 Practicum-Teaching Individuals with Learning and Behavioral Disorders**

Prerequisite: concurrent enrollment in SPE 619; and Teacher Certification students must be admitted to Teacher Education Program. Students will apply skills from introductory and specialized courses in settings with students with learning disabilities and behavioral disorders. 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. May be taught concurrently with SPE 520. Cannot receive credit for both SPE 520 and SPE 620. 2(0-4), D

**SPE 621 Methods of Teaching Individuals with Developmental Disabilities and Other Health Impairments**

Prerequisite: SPE 345 and SPE 346; and SPE 616 or concurrent enrollment; and concurrent enrollment in SPE 622; and Teacher Certification students must be admitted to Teacher Education Program. Stresses application of theoretical perspectives and research-based methods for individuals with developmental disabilities (i.e., mental retardation autism, Asperger syndrome, cerebral palsy) who may have associated orthopedic and health impairments (e.g., ADHD and epilepsy). 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, accommodations, and programming for integration in school, community, and vocational settings. May be taught concurrently with SPE 521. Cannot receive credit for both SPE 521 and SPE 621. 4(4-0), D

**SPE 622 Practicum-Instruction of Students with Developmental Disabilities and Other Health Impairments**

Prerequisite: concurrent enrollment in SPE 621 and Teacher Certification students must be admitted to Teacher Education Program. Students will apply skills from introductory and specialized courses in settings with students with developmental disabilities (e.g., mental retardation, autism, Asperger syndrome, cerebral palsy) and orthopedic and health impairments (e.g., ADHD, epilepsy). 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. May be taught concurrently with SPE 522. Cannot receive credit for both SPE 522 and SPE 622. 2(0-4), D

**SPE 623 Curriculum and Methods in Early Childhood Special Education**

Prerequisite: permission of area advisor in Special Education or Early Childhood Education. Focuses 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. May be taught concurrently with SPE 523. Cannot receive credit for both SPE 523 and SPE 623. 4(3-2), D

**SPE 625 Introduction to Teaching and Assessing Students with Autism Spectrum Disorders**

Prerequisite: permission of instructor. This course will support individuals across various disciplines who wish to gain knowledge of identification, assessment, and programming for individuals on the Autism Spectrum. Conditions associated with ASD will be

examined along with etiology, prevalence, and assessment issues. Students will apply knowledge through review of, and practice with, various norm referenced and informal instruments and rating scales specific to ASD. Emphasis will also be placed on validated programming for ASD. May be taught concurrently with SPE 525. Cannot receive credit for both SPE 525 and SPE 625. 3(3-0), D

**SPE 626 Applied Behavioral Analysis for Developmental Disabilities and Autism Spectrum Disorders**

Prerequisite: SPE 616; and SPE 618 or PSY 614. The evolution of science based practices for students with developmental disabilities and autism spectrum disorders are still emerging within the field of education. The purpose of this course is to train teachers and/or care providers to identify science based practices within applied behavior analysis and apply these principles to students with developmental disabilities and autism spectrum disorders within applied settings. This course will focus on the use of operant behavioral techniques with an emphasis on functional analysis and functional communication training. Students will conduct clinical and school-based assessments and interventions with school age children diagnosed with developmental disabilities and autism spectrum disorders. May be taught concurrently with SPE 526. Cannot receive credit for both SPE 526 and SPE 626. 3(2-2), D

**SPE 627 Seminar in Developmental and Sensory Disabilities**

Prerequisite: SPE 607 or SPE 625 or equivalent. This course is designed to provide practitioners with the knowledge and skills to implement research based practices for individuals with developmental disabilities including autism spectrum disorders (ASD). The course will also address issues specific to sensory integration, visual impairments, and significant cognitive delays. Students will examine in depth, approaches and models validated to support present level of performance needs for individuals with a variety of developmental and sensory requirements. Students will complete lecture hours where theoretical perspectives and the detailed components of various treatments are examined. In a corresponding field component, students will implement an applied project that will address the sensory, communication, learning, and social needs of a client who has been identified with multiple developmental delays. Measurement of outcomes specific to treatment plans will be a significant component of the applied activities. May be taught concurrently with SPE 527. Cannot receive credit for both SPE 527 and SPE 627. 3(2-2), D

**SPE 650 Career/Vocational Education and Transition**

Prerequisite: Teacher Certification students must be 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. May be taught concurrently with SPE 550. Cannot receive credit for both SPE 550 and SPE 650. 3(3-0), F,S

**SPE 656 Topical Issues in Special Education**

Prerequisite: permission of instructor. 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. May be taught concurrently with SPE 556. Cannot receive credit for both SPE 556 and SPE 656. 1-5, D

**SPE 660 Working with Families of Exceptional Individuals**

Recommended Prerequisite: SPE 715. 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. May be taught concurrently with SPE 560. Cannot receive credit for both SPE 560 and SPE 660. 3(3-0), F,S

**SPE 661 Methods of Teaching Individuals with Behavior Disorders/Emotional Disturbance**

Prerequisite: concurrent enrollment in SPE 491; and Teacher Certification students must be 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. May be taught concurrently with SPE 581. Cannot receive credit for both SPE 581 and SPE 661. 3(3-0), S

**SPE 662 Methods of Teaching Individuals with Learning Disabilities**

Prerequisite: SPE 345 and SPE 346; and concurrent enrollment in SPE 492; and Teacher Certification students must be 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. May be taught concurrently with SPE 582. Cannot receive credit for both SPE 582 and SPE 662. 3(3-0), F

**SPE 663 Methods of Teaching Individuals with Mental Retardation/Developmental Disabilities**

Prerequisite: SPE 345 and SPE 346; and concurrent enrollment in SPE 493; and Teacher Certification students must be 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. May be taught concurrently with SPE 583. Cannot receive credit for both SPE 583 and SPE 663. 3(3-0), S,Su

**SPE 664 Language Development of Exceptional Students**

Prerequisite: SPE 345 and SPE 346; and Teacher Certification students must be 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. May be taught concurrently with SPE 584. Cannot receive credit for both SPE 584 and SPE 664. 3(3-0), F,S

**SPE 667 Introduction to the Education of Students with Behavior Disorders**

Prerequisite: SPE 310 and Teacher Education students must be 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. May be taught concurrently with SPE 587.

Cannot receive credit for both SPE 587 and SPE 667. 3(3-0), F

**SPE 670 Approaches in Mainstreaming Exceptional Students**

Prerequisite: SPE 310 or SPE 340 and Teacher Certification students must be 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. May be taught concurrently with SPE 590. Cannot receive credit for both SPE 590 and SPE 670. 3(3-0), D

**SPE 671 Clinical Practicum in Special Education**

Prerequisite: permission of instructor. 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. In addition, this course is utilized for credit hours toward an Internship in Orientation and Mobility and Internship in Visual Impairment. See instructor for specific requirements. May be taught concurrently with SPE 591. Cannot receive credit for both SPE 591 and SPE 671. 1-3, D

**SPE 709 Methods of Teaching Students with Visual Impairments and Multiple Disabilities**

Prerequisite: permission of instructor. This online course is one of six courses offered to provide prospective teachers of children and youth with visual impairments (including those with multiple disabilities) competency-based training for work with this population in K-12 schools. Provides students with the pedagogical preparation to effectively teach Braille reading and writing, organize activities to promote literacy development, utilize 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. Participants will demonstrate the ability to assess, adapt, evaluate and teach academic subjects and specialized curricula for students with visual impairments, including those with multiple disabilities. Note: midterm and final examinations will be proctored. 3(3-0), S

**SPE 710 Problems in Special Education**

Major issues in the field of special education designed to meet individual student needs. May be repeated to a total of 3 hours. 1-3, D

**SPE 711 Braille Reading and Writing II**

Prerequisite: SPE 505 or SPE 605. This advanced, online course in Braille reading and writing will focus on competencies in reading and writing literary Braille and the Nemeth Codes for science and mathematics. Participants will also demonstrate the ability to teach basic assistive devices, and to provide instruction in tactile graphics. An introduction to the transcription in Braille code for music and foreign languages will also be presented. Instructor and/or site based facilitators will provide monthly face to face instruction to students whenever possible. Note: midterm and final examinations will be proctored. 3(3-0), S

**SPE 712 Instructional Techniques and Strategies of Orientation and Mobility**

Prerequisite: SPE 506 or SPE 606; and SPE 508 or SPE 608. Provides participants with the techniques and strategies used by individuals who are blind or visually impaired for independent orientation and mobility. Participants will apply the strategies of orientation and mobility techniques while using blindfolds and low vision simulators. The application of skills will be completed in indoor environments as well as residential, business, rural, and commercial areas. 6(6-0), Su

**SPE 714 Professional Issues and Assessment in Orientation and Mobility with Diverse Populations**

Prerequisite: SPE 505 or SPE 605; and SPE 506 or SPE 606; and SPE 508 or SPE 608; and SPE 712. This online course will provide participants with the overall philosophy of orientation and mobility including: the Code of Ethics and Certification standards. Current literature and issues pertinent to the profession of orientation and mobility will be discussed. This will include issues impacting programming with students with multiple disabilities, the development and administration of an effective orientation and mobility instructional program, assessment procedures, and research approaches. Note: midterm and final examinations will be proctored. 3(3-0), F

**SPE 715 Foundations in Special Education**

Focuses on legislation and litigation in the area of Education and Special Education and will include an overview of categorical disabilities including identification, etiology, and prevalence. The integration of individuals with disabilities across educational and community settings will be stressed along with an overview of programming validated to support specialized populations including those with disabilities and cultural and linguistic differences. In addition, the course will focus on strategies to support individuals identified as gifted as well as individuals identified at risk for school failure. 3(3-0), F,S,Su

**SPE 779 Application of Technology in Special Education**

Prerequisite: admission to the graduate program in Special Education. 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. 3(3-0), Su

**SPE 780 Contemporary Issues in Special Education**

Prerequisite: permission of instructor. 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. 3(3-0), D

**SPE 781 Educational Consultation**

Prerequisite: admission to the graduate program in Special Education. 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. 3(2-2), F

**SPE 782 Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities**

Prerequisite: admission to the graduate program in 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 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. 3(1-4), D

**SPE 783 Advanced Assessment to Support Individuals with Developmental and Sensory Disabilities**

Prerequisite: permission of instructor. 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 norm referenced and curriculum based evaluation of individuals with various sensory and developmental disabilities. Analysis and synthesis of assessment data in clinical staffings and development of individual educational plans will be required. Students enrolled in this course should have prior knowledge of assessment including administration, scoring, and interpretation. Supplemental course fee. 3(1-4), D

**SPE 784 Advanced Procedures in Teaching Students with Mild to Moderate Disabilities**

Prerequisite: SPE 780 and SPE 782 and SPE 792; and SPE 616 or PSY 614. Recommended Prerequisite: SPE 517 or SPE 617. 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. 3(2-2), S

**SPE 785 Advanced Procedures in Development Disabilities**

Prerequisite: admission to the graduate program in Special Education; and SPE 783. The primary purpose of the course is to provide students with the knowledge and skills necessary for development and application of curricula and methods appropriate to the needs of individuals with mental retardation and other developmental disabilities. Emphasis will be placed on the empirical basis of the procedures and on life referenced programming. Students will apply knowledge and skills in field based activities supervised by the instructor. 3(2-2), D

**SPE 787 Advanced Behavioral Analysis and Intervention**

Prerequisite: admission to the graduate program in Special Education; and SPE 780 and SPE 782 and SPE 792; and SPE 784 or SPE 785; and SFR 780. 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. 3(3-0), F

**SPE 788 Research Seminar in Special Education**

Prerequisite: admission to the graduate program in Special Education; and SPE 780; and SPE 782 or SPE 783; and SPE 784 or SPE 785; and SFR 780. 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. 3(3-0), F,S

**SPE 789 Practicum-The Exceptional Child**

Prerequisite: permission of instructor. 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. Supplemental course fee. 3(0-6), Su

**SPE 790 Educational Workshop**

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. 1-5, D

**SPE 791 Clinical Practicum for Special Needs Populations**

Prerequisite: SPE 625 and SPE 783 and SPE 785; and permission of instructor. This course will involve experience in a supervised, clinical setting with individuals diagnosed with various disabilities. Emphasis will be placed on developmental disabilities and challenging behaviors. Students will conduct assessment specific to their credentials and training to include learning assessment, autism specific instruments, and communication assessment. Emphasis will be placed on conducting functional behavioral assessment and utilizing data across domains to develop research based programs. Students will participate in a multidisciplinary assessment model to include families and professionals from a variety of disciplines. Preparation and submission of reports that are research based and that are of a high professional quality will be a required course outcome. Supplemental course fee. 1-6(0-12), D

**SPE 792 Advanced Diagnosis and Remediation of Students with Disabilities Lab**

Prerequisite: admission to the graduate program in Special Education; and concurrent enrollment with SPE 782 or SPE 783. 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. Supplemental course fee. 2(0-4), S

**SPE 799 Thesis**

Prerequisite: admission to the graduate program in Special Education; and SFR 780 and SPE 780 and SPE 787 and SPE 789; and SPE 782 or SPE 783; and SPE 784 or SPE 785. Independent research and study connected with preparation of thesis. May be repeated to a maximum of 6 hours credit. 1-6, D

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Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
published July 2011

Missouri State > Office of the Registrar > Undergraduate Catalog > College of Education > Greenwood Laboratory School

## Greenwood Laboratory School

Greenwood Laboratory School, Room 4, Phone: (417) 836-5124, Fax: (417) 836-8449  
Email: [Greenwood@missouristate.edu](mailto:Greenwood@missouristate.edu)  
Website: <http://education.missouristate.edu/greenwood/>  
Director: Associate Professor Janice R. Duncan, Ph.D.

### Faculty (as of July 15, 2011)

**Assistant Director:** Steve Seal, Ed.S.

**Associate Professor:** Cheryl K. Johnson, M.S.

**Assistant Professors:** Vicki L. Dunlop, M.Ed.; Kathryn M. Gibson, M.A.

**Instructor:** Richard A. Ruhe, M.A.

**Instructors:** Susan L. Baldwin, M.Ed.; Abby R. Burch, M.Ed.; Rebecca Crowder, M.S.Ed.; David C. Davison, M.S.; Cory A. Fearing, M.S.Ed.; Janelle A. Flanders, M.Ed.; Melinda M. Hammerschmidt, M.S.E.; Kent O. Hedgpeth, M.Ed.; JulieAnn Jenkins, Ed.S.; Melanie Kleeschulte, M.A.; Jill R. Martin, M.S.Ed.; Diana Milburn, M.S.Ed.; Victoria L. Sutton, Ed.S.; Darren S. Taylor, M.S.; Denise S. Vinton, M.S.Ed.; Cathie Weir, Ed.D.

**Emeritus Professors:** Charles R. Baird, M.A.; M. Pauline Barker, M.Ed., M.A.; Anna Lee Dugan, M.S.; Candace D. Fisk, M.A.; Doris J. Grevillius, M.S.; Helen Huff, M.S.; James F. Jester, Ed.D.; Richard E. Moore, M.S.; Ruth C. Peñaherrera-Norton, M.Ed.; Phyllis R. Shoemaker, M.Ed.; Lillian Rosemary Williams, M.A.; Delmar D. Wipf, M.S.

### General Information

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 enrollment capacity of 378 students and 100% of each graduating class enrolls in a post-secondary educational institution. The average ACT composite score for the senior class is 26.9 while the state average is 21.6 and the national average is 21.0 Inquiry based learning is emphasized over rote memorization

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, service learning activities, research, information sharing, and professional development. Through these activities, Greenwood Laboratory School functions within the College of Education to create "a legacy of learning." In addition, Greenwood's mission is to support Missouri State University as a laboratory of best practices in teaching and to prepare students who are knowledgeable, creative, caring and engaged citizens, which is consistent with the University's mission statement of public affairs.

Greenwood is accredited by the North Central Association of Schools/AdvancED.

**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 Missouri State University. Annual tuition is charged and is subject to change each year. Missouri State full-time employees may apply up to seven and one-half hours of tuition waiver towards Greenwood tuition.



Office of the Registrar  
2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Education > Department of Reading, Foundations, and Technology

## Department of Reading, Foundations, and Technology

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Email: [RFT@missouristate.edu](mailto:RFT@missouristate.edu)  
Website: <http://education.missouristate.edu/rft/>  
Interim Department Head: Associate Professor Cathy J. Pearman

### Faculty (as of July 15, 2011)

**Professors:** J. Deanne Camp, Ed.D.; Fred H. Groves, Ph.D.; David L. Hough, Ph.D.; Beth Hurst, Ph.D.; Steven P. Jones, Ph.D.

**Associate Professors:** David R. Goodwin, Ph.D.; Steven Hinch, Ph.D.; Rosa M. Mejia-Uribe, Ph.D.; Sarah B. Nixon, Ph.D.; Cathy J. Pearman, Ph.D.; Eric C. Sheffield, Ph.D.; Rebecca Swearingen, Ed.D.; Randall Wallace, Ph.D.

**Assistant Professor:** Ching-Wen Chang, Ph.D.

**Instructors:** Annice H. McLean, M.S.Ed.; Jane Ward, Ed.S.

**Emeritus Professors:** L. Dale Allee, Ph.D.; Donna A. Bearsley, Ph.D.; Stefan J. Broidy, Ph.D.; N. June Brown, Ed.D.; J. Wordy Buckner, Ed.D.; Genevieve R. Cramer, Ph.D.; Ralph G. Hawkins, Ed.D.; Everett R. Payne Jr., M.A.; James R. Pollard, Ed.D.; Donald E. Sater, Ed.D.

### Accreditation

Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Middle School Education, B.S.Ed.; Educational Technology, M.S.Ed.; Literacy, M.S.Ed.; and Master of Arts in Teaching, M.A.T.

### Graduate Programs

The following graduate programs are available:

Educational Technology (Master of Science in Education); Master of Arts in Teaching; and Literacy (Master of Science in Education).

#### Accelerated Master of Science in Education degree in Literacy

Eligible Missouri State undergraduate BSED majors may apply for preliminary acceptance into the MSED Literacy program after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take up to 12 hours of graduate level Literacy courses that apply to both their undergraduate and graduate programs (Mixed Credit). See the Graduate Catalog or further information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

Refer to the [Graduate Catalog](#) for more information.

**University Certificate (graduate):** A graduate level certificate program is available in Instructional Technology Specialist. Refer to the Graduate Catalog for more information.

### Majors

#### Middle School Education

Bachelor of Science in Education  
(Certifiable grades 5-9)

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. Holders of this middle school certificate may be employed to teach in grades 5-9.

#### Program 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.

Additionally, State Board of Education certification rules require a passing score on each portion 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. Missouri State further requires C-BASE minimum scores of 265.

All students must be admitted to the Teacher Education Program and to Supervised Teaching in order to earn this degree (see application procedures in the "Teacher Certification, Teacher Education Program" section of catalog.)

A. General Education Requirements - see **General Education Program and Requirements** section of catalog (43-51 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 Options (42-48 hours):

Students must complete one of the following program options consisting of two separate content areas. Each option will total 42-48 hours. This requirements is met by combining 18 hours of coursework required for General Education (section A) and/or degree requirements (section B) and 24-30 additional hours in one of the six option areas. Following are the lists of courses identified for each of the six options areas. Note that each option contains 18 hours of General Education and/or degree requirements (bolded courses). Courses noted with an asterisk are those that **cannot** be double-counted toward both General Education requirements and the program option.

1. **Language Arts and Social Sciences Option:**

- a. Language Arts (21 hours total): **ENG 110(3), 210(3); ENG 338(3);** 390(3), 520(3); THE 505(3); and one of the following courses: ENG 351(3), 354(3), 380(3), 533(3), 534(3), 582(3)
- b. Social Sciences (24 hours total): **HST 121(3), 122(3); PLS 101(3);** HST 103(3)\*, 104(3)\*; ECO 155(3)\*; **GRY 100(3);** and one of the following courses: HST 335(3)\*, 342(3)\*, 350(3)\*, 380(3)\*, 381(3)\*  
\*Cannot be double-counted toward both General Education requirements and the program option.

2. **Language Arts and Mathematics Option:**

- a. Language Arts (21 hours total): **ENG 110(3), 210(3); ENG 338(3);** 390(3), 520(3); THE 505(3); and one of the following courses: ENG 351(3), 354(3), 380(3), 533(3), 534(3), 582(3)
- b. Mathematics (21 hours total): **MTH 130(3), 320(3), 343(3),** 479(3); one of the following courses: MTH 135(3), 138(5), 261(5), 280(5), 315(3), 575(3); one of the following courses: MTH 360(3), 460(3); and one of the following courses: MTH 377(3), 261(5) (if not used previously)

3. **Language Arts and Science Option:**

- a. Language Arts (21 hours total): **ENG 110(3), 210(3); ENG 338(3);** 390(3), 520(3); THE 505(3); and one of the following courses: ENG 351(3), 354(3), 380(3), 533(3), 534(3), 582(3)
- b. Science (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. **Mathematics and Social Sciences Option:**

- a. Mathematics (21 hours total): **MTH 130(3), 320(3), 343(3),** 479(3); one of the following courses: MTH 135(3), 138(5), 261(5), 280(5), 315(3), 575(3); one of the following courses: MTH 360(3), 460(3); and one of the following courses: MTH 377(3), 261(5) (if not used previously)
- b. Social Sciences (24 total hours): **HST 121(3), 122(3); PLS 101(3);** HST 103(3)\*, 104(3)\*; ECO 155(3)\*; **GRY 100(3);** and one of the following courses: HST 335(3)\*, 342(3)\*, 350(3)\*, 380(3)\*, 381(3)\*  
\*Cannot be double-counted toward both General Education requirements and the program option.

5. **Mathematics and Science Option:**

- a. Mathematics (21 hours total): **MTH 130(3), 320(3), 343(3),** 479(3); one of the following courses: MTH 135(3), 138(5), 261(5), 280(5), 315(3), 575(3); one of the following courses: MTH 360(3), 460(3); and one of the following

courses: MTH 377(3), 261(5) (if not used previously)

- b. Science (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)

**6. Science and Social Sciences Option:**

- a. Science (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)
- b. Social Sciences (24 hours total): **HST 121(3), 122(3); PLS 101(3);** HST 103(3)\*, 104(3)\*; ECO 155(3)\*; **GRY 100(3);** and one of the following courses: HST 335(3)\*, 342(3)\*, 350(3)\*, 380(3)\*, 381(3)\*  
 \*Cannot be double-counted toward both General Education requirements and the program option.

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); EDT 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 Option chosen:
  - a. ENG 405(3), if Language Arts Content Area
  - b. MTH 409(3), if Mathematics Content Area
  - c. SCI 404(3), if Science Content Area
  - d. HST 418(4), if Social Sciences Content Area
4. Clinical Experiences: SEC 302(4); MID 493(6), 494(6)

E. Specific Requirements for Bachelor of Science in Education degree (see [Degrees, Programs and Requirements](#) section of catalog)

F. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Literacy

Bachelor of Science in Education  
 (Non-Certifiable)

This minor is designed to strengthen classroom teachers' knowledge for teaching literacy. Minimum of 23 hours required.

- A. RDG 318(3) or 474(2); RDG 420(3), 421(2), 574(3); ENG 334(3)
- B. Select additional electives from the following to bring total to 23 hours: RDG 560(2), 573(3), 580(3)\*, 585(2)\*; ENG 338(3) or 536(3); PSY 331(3), 441(3)\*; SPE 584(3) or CSD 312(3); PSY 508(3)\* or SPE 515(3)\* or other electives approved by the department.  
*\*Courses may be applied toward teacher certification in Special Reading (K-12). Additional coursework will be required for the teacher's certificate.*

## Education Courses

### EDC 150 Introduction to Teaching

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. 1(1-0) F,S

### EDC 199 Clinical Experiences in Teaching

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. 2 F,S

### EDC 345 Introduction to Multicultural Education and Diversity

An introduction to cultural issues, diversity, and related perspectives in education. Examination of individual differences in ethnicity, race, socioeconomic status, gender, exceptionalities, language, religion, sexual orientation, and geographic area in the context of education and society. Development of skills, knowledge, and dispositions related to teaching and learning in varied settings with diverse learners required of all educators to be effective in a global society. 3(3-0), F, S, Su

### EDC 350 School and Society

Prerequisite: admitted to Teacher Education Program; and PSY 360 (secondary, middle school, and K-12 programs) or PSY 385 or CFD 257 (elementary) 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. 3(3-0) F,S

### EDC 786 Research Seminar in Education

Prerequisite: SFR 781. An in-depth study of the Teacher Work Sample that concludes with a reflective paper connecting learning theory to practice in the K-12 classroom. Students will meet periodically to discuss components of the Teacher Work Sample and

selected readings supporting the Teacher Work Sample. A concluding presentation of the reflective paper will be made to faculty and students enrolled in the course. 1-3, F,S

## Educational Technology Courses

### **EDT 365 Educational Applications of Technology and Media**

Prerequisite: CIS 101 or CSC 101 or waiver exam, and one of the following: ELE 302, SPE 310, or SEC 302, or concurrent enrollment for teacher education majors. Principles and techniques for selection and utilization of computer and video 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. 3(3-0) F,S

### **EDT 562 Educational Applications of Computers for Teaching**

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. May be taught concurrently with EDT 662. Cannot receive credit for both EDT 562 and EDT 662. 3(2-2) F,S,Su

### **EDT 563 Technology Administration and Management**

Provides technology specialists, technology coordinators, library media specialists, school administrators and educators with a working knowledge of the administrative processes and concerns of operating an educational 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. May be taught concurrently with EDT 640. Cannot receive credit for both EDT 563 and EDT 640. 2(2-0) D

### **EDT 565 Selection and Utilization of Educational Technology**

Targets principles of attention, perception, and retention regarding selection and implementation of instructional strategies. Students apply instructional design principles and learning theories to develop professional products; develop and implement evaluation strategies for hypermedia materials; combine electronic and non-electronic media; use telecommunications tools for production purposes; and integrate a variety of instructional technology tools. May be taught concurrently with EDT 650. Cannot receive credit for both EDT 565 and EDT 650. 3(3-0) D

### **EDT 597 Topical Issues in Educational Technology**

A variable credit course with amount of credit based on the extent of the work required. Special topics related to the field of Educational Technology which may broaden the scope of the program of study. May be repeated up to a maximum of 6 hours. May be taught concurrently with EDT 690. Cannot receive credit for both EDT 597 and EDT 690. 1-6 D

### **EDT 640 Technology Administration and Management**

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 an educational 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. May be taught concurrently with EDT 563. Cannot receive credit for both EDT 640 and EDT 563. 2(2-0), D

### **EDT 650 Selection and Utilization of Educational Technology**

Targets principles of attention, perception, and retention regarding selection and implementation of instructional strategies. Students apply instructional design principles and learning theories to develop professional products; develop and implement evaluation strategies for hypermedia materials; combine electronic and non-electronic media; use telecommunications tools for production purposes; and integrate a variety of instructional technology tools. May be taught concurrently with EDT 565. Cannot receive credit for both EDT 650 and EDT 565. 3(3-0), D

### **EDT 662 Educational Applications of Computers for Teaching**

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. May be taught concurrently with EDT 562. Cannot receive credit for both EDT 662 and EDT 562. 3(2-2), D

### **EDT 690 Topical Issues in Educational Technology**

A variable credit course with amount of credit based on the extent of the work required. Special topics related to the field of Educational Technology which may broaden the scope of the program of study. May be repeated up to a maximum of 6 hours. May be taught concurrently with EDT 597. Cannot receive credit for both EDT 690 and EDT 597. 1-6, D

### **EDT 696 Continuing Education in Educational Technology**

Special topics related to Educational Technology for continuing professional development. A variable credit course with amount of credit based on the extent of work required. Cannot count toward the Educational Technology MSED program. May be repeated to a maximum of 6 hours. 1-6, D

### **EDT 763 Administration of Educational Technology**

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 educational technology program at a building, district, institutional or organizational level. 3(3-0) F

### **EDT 764 Instructional Design**

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 educational technology. 3(3-0), S

**EDT 765 Educational Media Production**

Prerequisite: EDT 650. Principles and techniques of designing and producing advanced forms of media software materials in video, audio, and photography formats with emphasis on multi-media that includes computer generated graphics interfaced with video and audio editing as well as more basic production techniques. 3(2-2) S

**EDT 767 Educational Technology Practicum**

This is a field-experience based course that 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. 2(0-4), D

**EDT 777 Problems in Educational Technology**

Research in or in-depth examination of issues and problems in the field of Educational Technology. May be repeated up to a maximum of 5 hours when topic varies. 1-3, D

**EDT 797 Educational Technology Special Research Project**

Prerequisite: SFR 780. 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. 3, D

**EDT 798 Research Seminar in Educational Technology**

Prerequisite: SFR 780. An extensive research paper focused on the field of instructional Design and Technology. 3(3-0), D

**EDT 799 Educational Technology Thesis**

Prerequisite: SFR 780. Independent research and study connected with preparation of a thesis in the field of Educational 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. 3-6, D

## Middle School Education Courses

**MID 400 Philosophy, Curriculum, and Organization of Middle School Education**

Prerequisite: admitted to Teacher Education Program. An overview of middle level education philosophy, curriculum planning and development, instruction, and organization. Emphasis is on cognitive, behavioral, and affective needs of middle level students, and on the development of interdisciplinary thematic units. 3(3-0) F,S

**MID 421 Philosophy and Organization of Middle School Education**

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. 2(2-0) D

**MID 425 Middle School Curriculum**

Prerequisite: MID 421 or concurrent enrollment; and admitted to Teacher Education Program. 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. 2(2-0) F,S,Su

**MID 439 Middle School Instructional Strategies**

Prerequisite: MID 421 and admitted to Teacher Education Program. Recommended Prerequisite: MID 425. 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. 3(2-2) F,S

**MID 493 Supervised Teaching (Middle School)**

Prerequisite: 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; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches under the direction of the cooperating teacher and university supervisor. Student participates in extra-curricular, co-curricular, and exploratory activities and attends both individual and group conferences. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA or in the subject matter emphasis area. Supplemental course fee. 6 F,S

**MID 494 Supervised Teaching (Middle School)**

Prerequisite: concurrent enrollment in MID 493. Student observes then teaches under the direction of the cooperating teacher and university supervisor. Student participates in extra-curricular, co-curricular, and exploratory activities and attends both individual and group conferences. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA or in the subject matter emphasis area. Supplemental course fee. 6 F,S

**MID 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

#### **MID 725 Advanced Theory and Practice in the Teaching of Early Adolescents**

Materials, methods, and procedures for designing developmentally appropriate learning experiences for early adolescents; current trends and issues in the field. 3(3-0), D

#### **MID 810 The Middle School-The Junior High School**

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. 3(3-0), D

### **Reading Courses**

#### **RDG 107 Critical Reading and Study Skills in Academic Texts**

Introduction to college reading designed to help students acquire and improve critical reading comprehension skills of academic texts necessary for college-level coursework. Provides intensive reading instruction in comprehension, vocabulary development, reading rate, reading efficiency techniques, and reading study strategies. May not be used to satisfy General Education Program requirements and may not be credited on any major or minor offered by any department. May not receive credit for both RDG 107 and IDS 118. 2(1-2) F,S,Su

#### **RDG 300 Service Learning in Literacy**

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 literacy 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. 1 F,S

#### **RDG 318 Foundations of Reading Instruction**

Prerequisite: EDC 150; and ELE 302 or SPE 310 or SPE 340 with grade of "C" or higher. An initial course in literacy foundations and methods from emergent literacy through middle school/junior high school. Examines various approaches of current literacy instruction and practices, including the basic components of literacy and applications to content areas. Creates a literate environment that fosters reading and writing by integrating foundational knowledge. Emphasizes contemporary classrooms, which are assumed to contain children of diverse cultures and abilities. 3(3-0) F,S,Su

#### **RDG 319 Practicum-Foundations of Literacy Instruction**

Prerequisite: admitted to Teacher Education Program and current pre-professional liability insurance. Practical application of developmental, functional, and recreational literacy instructional practices from emergent literacy 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 literacy lessons. Family Care and Safety Registry (FCSR) check is required. 1(0-2) D

#### **RDG 420 Methods of Teaching Reading and Language Arts in Elementary Schools**

Prerequisite: RDG 318; and admitted to Teacher Education Program; and concurrent enrollment in RDG 421. A practical approach to elementary reading and language arts instruction including assessment of the literacy needs and progress of children and selecting appropriate materials and procedures for the contemporary classroom, which is assumed to contain children of diverse cultures and learning abilities. Concepts from reading, language, and child development are used to teach reading, writing, speaking, viewing, listening, and thinking skills to help children apply their developing abilities to different situations, materials, and ideas. 3(3-0) F,S,Su

#### **RDG 421 Practicum-Methods of Teaching Reading and Language Arts in the Elementary Schools**

Prerequisite: RDG 318 and concurrent enrollment in RDG 420 and admitted to Teacher Education Program. Practicum application of techniques in personalizing elementary literacy instruction, by the assignment of students to practicum centers where they will be required to assess the literacy status and progress of children and select appropriate materials and techniques for developmental and corrective reading. Family Care and Safety Registry (RCSR) check is required. Additional field experience activities required outside of class time. 2(1-2) F,S,Su

#### **RDG 422 Techniques of Teaching Literacy in the Content Fields**

Prerequisite: RDG 318 and admitted to Teacher Education Program. Assess literacy levels and select appropriate materials in various content fields. Techniques of teaching reading and writing in 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. 2(2-0) D

#### **RDG 474 Reading and Writing in the Content Fields**

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 literacy achievement. Includes awareness of reading and writing approaches and problems; study skills, literacy evaluation and measurement; vocabulary and comprehension development; selection of materials appropriate for each student. 2(2-0) F,S

#### **RDG 480 Problems in Literacy Education**

The student, in consultation with advisor or instructor, selects a topic in literacy 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. 1-3 D

#### **RDG 556 Topical Issues in Literacy**

Prerequisite: permission may be required (see class schedule). To develop understanding and skills in relevant areas of literacy



education. Credit hours may vary depending on topic. Variable content course. May be repeated to a total of 5 hours when topics change. A maximum of 3 hours may be used toward degree. May be taught concurrently with RDG 656. Cannot receive credit for both RDG 656 and RDG 556 on same topic. 1-5 D

**RDG 560 Diversity Issues in Literacy and Content Area Instruction**

Designed for preservice and practicing elementary, middle, and high school teachers working on undergraduate degrees in Elementary Education or Secondary Education; as well as graduate degrees in Literacy, Elementary Education, MAT, or other MS or MSED graduate degrees. Students will expand their knowledge of racial, cultural, ethnic, linguistics, and socio-economics diversity; and learn strategies to implement diversity issues into their literacy instruction and/or content area lessons. Students will be introduced to different aspects of diversity through a wide variety of course readings, multicultural literature, videos, guest speakers, multicultural interview, and community field trips. May be taught concurrently with RDG 660. Cannot receive credit for both RDG 660 and RDG 560. 2(2-0) F

**RDG 573 Psychology of Literacy**

Practical contemporary learning theories and principles that are basic to acquiring literacy. Focus on evidence-based research supporting learner-centered classrooms and issues of cognitive and metacognitive development, the affective and motivational dimensions of instruction, the developmental and social aspects of learning, and individual differences in learning associated with cultural and social backgrounds. May be taught concurrently with RDG 673. Cannot receive credit for both RDG 573 and RDG 673. 3(3-0), D

**RDG 574 Analysis and Correction of Difficulties in Literacy**

Prerequisite: RDG 318 or both RDG 420 and RDG 421, or equivalent; and admitted to Teacher Education Program. Techniques of analysis and correction of difficulties in literacy for elementary, secondary, special education and reading/literacy teachers. Trends in dealing with diagnostic procedures, instructional techniques, special materials, and assessment. Students concentrate study within their level of training. Family Care and Safety Registry (RCSR) check is required. May be taught concurrently with RDG 640. Cannot receive credit for both RDG 640 and RDG 574. 3(3-0) F,S

**RDG 580 Successful Classroom Communities to Enhance Student Learning**

Integration of areas supporting student learning including productive interactions with families. Concentrated modules on literacy learning of regular education students, struggling readers, and exceptional students. Basic principles in effective communication with parents and other professionals to reinforce appropriate classroom learning. May not be substituted for any course required for Special Education degrees or certificates. May be taught concurrently with RDG 680. Cannot receive credit for both RDG 680 and RDG 580. 2(2-0) D

**RDG 585 Techniques of Responsive Support in the Literacy Classroom**

Techniques to support positive, active learning through appropriate response to intervention plans within the literacy classroom. Study of alternative and appropriate behaviors to meet students' needs in acceptable ways through modeling, guided practice, and cueing within a supportive environment, which includes teachers, parents, and other stakeholders in students' learning. May not be substituted for SPE 515, 615, 616, or any course required for a Special Education degree or certificate. May be taught concurrently with RDG 685. Cannot receive credit for both RDG 585 and RDG 685. 2(2-0) D

**RDG 599 Literacy Projects**

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/literacy course. Number of class hours determined by semester hours of credit. May be repeated to a total of 3 hours. May be taught concurrently with RDG 600. Cannot receive credit for both RDG 600 and RDG 599. 1-3 D

**RDG 600 Literacy Projects**

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/literacy course. Number of class hours determined by semester hours of credit. May be repeated to a total of 3 hours. May be taught concurrently with RDG 599. Cannot receive credit for both RDG 599 and RDG 600. 1-3, D

**RDG 640 Analysis and Correction of Difficulties in Literacy**

Prerequisite: RDG 318 or both RDG 420 and RDG 421, or equivalent; and admitted to Teacher Education Program. Techniques of analysis and correction of difficulties in literacy for elementary, secondary, special education and reading/literacy teachers. Trends in dealing with diagnostic procedures, instructional techniques, special materials, and assessment. Students concentrate study within their level of training. Family Care and Safety Registry (FCSR) check is required. May be taught concurrently with RDG 574. Cannot receive credit for both RDG 640 and RDG 574. 3(3-0) F,S

**RDG 656 Topical Issues in Literacy**

Prerequisite: permission may be required (see class schedule). To develop understanding and skills in relevant areas of literacy education. Credit hours may vary depending on topic. Variable content course. May be repeated to a total of 5 hours when topics change. A maximum of 3 hours may be used toward degree. May be taught concurrently with RDG 556. Cannot receive credit for both RDG 556 and RDG 656 on same topic. 1-5, D

**RDG 660 Diversity Issues in Literacy and Content Area Instruction**

Designed for preservice and practicing elementary, middle, and high school teachers working on undergraduate degrees in Elementary Education or Secondary Education; as well as graduate degrees in Literacy, Elementary Education, MAT, or other MS or MSED graduate degrees. Students will expand their knowledge of racial, cultural, ethnic, linguistics, and socio-economics diversity; and learn strategies to implement diversity issues into their literacy instruction and/or content area lessons. Students will be introduced to different aspects of diversity through a wide variety of course readings, multicultural literature, videos, guest speakers, multicultural interview, and community field trips. May be taught concurrently with RDG 560. Cannot receive credit for both RDG 560 and RDG 660. 2(2-0), F

### **RDG 673 Psychology of Literacy**

Practical contemporary learning theories and principles that are basic to acquiring literacy. Focus on evidence-based research supporting learner-centered classrooms and issues of cognitive and metacognitive development, the affective and motivational dimensions of instruction, the developmental and social aspects of learning, and individual differences in learning associated with cultural and social backgrounds. May be taught concurrently with RDG 573. Cannot receive credit for both RDG 673 and RDG 573. 3(3-0), D

### **RDG 680 Successful Classroom Communities to Enhance Student Learning**

Integration of areas supporting student learning including productive interactions with families. Concentrated modules on literacy learning of regular education students, struggling readers, and exceptional students. Basic principles in effective communication with parents and other professionals to reinforce appropriate classroom learning. May not be substituted for any course required for Special Education degrees or certificates. May be taught concurrently with RDG 580. Cannot receive credit for both RDG 680 and RDG 580. 2(2-0) D

### **RDG 685 Techniques of Responsive Support in the Literacy Classroom**

Techniques to support positive, active learning through appropriate response to intervention plans within the literacy classroom. Study of alternative and appropriate behaviors to meet students' needs in acceptable ways through modeling, guided practice, and cueing within a supportive environment, which includes teachers, parents, and other stakeholders in student's learning. May not be substituted for SPE 515, 615, 616, or any course required for a SPE degree or certificate. May be taught concurrently with RDG 585. Cannot receive credit for both RDG 585 and 685. 2(2-0), D

### **RDG 700 Relationship of Language to Literacy and Intellectual Development**

Utilizing elements of language and intellectual development which provide the basis for the development of appropriate literacy 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 literacy program. 3(3-0), F,S,Su

### **RDG 710 Content Area Literacy**

Prerequisite: enrollment limited to students in the MSED, MA, and MAT programs. Teaching subject matter in content areas in ways for utilizing and further developing fundamental literacy; effective reading and writing skills, vocabulary development in specific areas, study skills, utilization of cognitive processes. 3(3-0), F,S,Su

### **RDG 720 Use of Multi-Media Resources in Literacy**

Criteria, methods and tools for selection and effective utilization of both print and nonprint material, enhancing and encouraging competency in literacy; production of materials utilizing various media. Students concentrate study within their level of training (elementary or secondary.) 3(3-0), D

### **RDG 730 Assessment and Instruction of Less Skilled Readers and Writers**

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 and write. Planned with and directed by a graduate faculty member. Less intensive and more generalized clinical experience for those not intending to pursue Special Reading Teacher certification. May not be substituted for any course required for special reading certification (RDG 574/640, 780, 781, or 782). Family Care and Safety Registry (FCSR) check is required. Literacy majors must enroll for 6 credit hours, other majors may enroll for 3 credit hours. 3(2-2) or 6(2-8), F,S

### **RDG 740 Issues and Trends in Literacy Education**

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. 3(3-0), D

### **RDG 770 Curriculum Design in Literacy**

Prerequisite (required of graduate Literacy program students only): RDG 640 and RDG 660; and RDG 673 or RDG 780; RDG 700 and RDG 710; and RDG 760 (6 hours) or RDG 781 and RDG 782; and RDG 740. Research and read literature to prepare for establishing a total school literacy curriculum. This capstone course is taken during the semester graduate Literacy program students take comprehensive exams. 3(3-0), F,S

### **RDG 780 Assessment Procedures for the Literacy Specialist**

Prerequisite: RDG 640. Designed especially for the special reading teacher or literacy coach who needs an advanced course for special reading teacher certification. Psycho-educational testing techniques, multisensory teaching techniques, report writing, resource personnel, and clinic operations will form the basis for this course. 3(3-0), S

### **RDG 781 Assessment of Literacy Problems**

Prerequisite: RDG 780; and concurrent enrollment in RDG 782. Supervised individual practice diagnosing literacy problems. Students work with elementary, secondary, or adult learners. Includes 4 hours of practicum. 3(1-4), Su

### **RDG 782 Remediation of Literacy Problems**

Prerequisite: RDG 780; and concurrent enrollment in RDG 781. Supervised individual practice with remedial procedures for literacy problems. Students work with elementary, secondary, or adult learners. Includes 4 hours of practicum. 3(1-4), Su

### **RDG 791 Problems in Literacy Education**

Prerequisite: concurrent enrollment in SFR 780. In consultation with the advisor, major issues in the field of literacy 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. 1-3, F,S,Su

### **RDG 795 Research Seminar in Literacy**

Prerequisite: SFR 780 and RDG 700 or RDG 710 and RDG 791. An in-depth study of a topic in literacy, leading to the guided development and completion of an extensive research paper. 3(3-0), F,S



### **RDG 799 Thesis**

Prerequisite: SFR 780 and RDG 700 and RDG 710 and RDG 791. Independent research and study connected with preparation of thesis. May be repeated to a maximum of 6 hours credit. 1-6, D

## **Secondary Education Courses**

### **SEC 300 Clinical and Field Experiences in Secondary Education**

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. 2(0-4) D

### **SEC 301 Introduction to Teaching in the Secondary School**

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. 2(2-0) D

### **SEC 302 General Methods of Instruction in the Middle and Secondary Schools**

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. 4(3-2) F,S

### **SEC 493 Supervised Teaching (Secondary)**

Prerequisite: completion of all method courses in chosen content area; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

### **SEC 494 Supervised Teaching (Secondary)**

Prerequisite: concurrent enrollment in SEC 493 or ELE 495 or SPE 495. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

### **SEC 495 Theory into Practice: Applications Workshop**

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 or other supervised teaching course. 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. 1-3 F,S

### **SEC 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

### **SEC 522 Philosophy of Vocational Education**

Philosophical foundations of vocational education; philosophies of vocational education in contemporary school. Identical with AGV 522 and BSE 522. May be repeated to a total of 3 hours. May be taught concurrently with SEC 622. Cannot receive credit for both SEC 622 and SEC 522. 1-3 D

### **SEC 526 Coordination of Cooperative Education**

Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Restricted to those who can qualify as coordinators. Identical with AGV 526 and BSE 526. May be repeated to a total of 2 hours. May be taught concurrently with SEC 626. Cannot receive credit for both SEC 626 and SEC 526. 1-2 D

### **SEC 527 Teaching Adults in Vocational Education**

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. Identical with AGV 527 and AGE 508. Cannot receive credit for SEC 527 and AGV 527 and AGE 508. May be taught concurrently with SEC 627. Cannot receive credit for both SEC 627 and SEC 527. 3(3-0), D

### **SEC 528 Measurement and Evaluation of Vocational Education Programs**

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. Identical with AGV 528 and BSE 528. May be repeated to a total of 3 hours. May be taught concurrently with SEC 628. Cannot receive credit for both SEC 628 and SEC 528. 1-3 D

**SEC 622 Philosophy of Vocational Education**

Philosophical foundations of vocational education; philosophies of vocational education in contemporary school. Identical with AGV 622 and BSE 622. May be repeated to a total of 3 hours. May be taught concurrently with SEC 522. Cannot receive credit for both SEC 522 and SEC 622. 1-3, D

**SEC 626 Coordination of Cooperative Education**

Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Restricted to those who can qualify as coordinators. Identical with AGV 626 and BSE 626. May be repeated to a total of 2 hours. May be taught concurrently with SEC 526. Cannot receive credit for both SEC 526 and SEC 626. 1-2, D

**SEC 627 Teaching Adults in Vocational Education**

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. Identical with AGV 627 and AGE 608. Cannot receive credit for SEC 627 and AGV 627 and AGE 608. May be taught concurrently with SEC 527. Cannot receive credit for both SEC 527 and SEC 627. 3(3-0), D

**SEC 628 Measurement and Evaluation of Vocational Education Programs**

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. Identical with AGV 628 and BSE 628. May be repeated to a total of 3 hours. May be taught concurrently with SEC 528. Cannot receive credit for both SEC 528 and SEC 628. 1-3, D

**SEC 701 Secondary School Curriculum**

Foundation course in the development and organization of the secondary school curriculum. 3(3-0), D

**SEC 703 Seminar in Current Trends in Teaching English**

Prerequisite: ENG 405. For experienced teachers of English in grades 9-12; research and recent developments in teaching literature and composition. 2(2-0), D

**SEC 704 Seminar in Current Trends in Teaching Social Studies**

Prerequisite: HST 418. For experienced teachers of social studies in grades 9-12; research and recent developments in teaching various areas of social studies. 2(2-0), D

**SEC 705 Curriculum Construction in Business Education**

Objectives and interrelationships of business education courses and programs. Development of curricular materials and evaluative devices. Identical to BSE 705. May be repeated to a total of 3 hours. 1-3, D

**SEC 706 Seminar in Current Trends in Teaching Business Education**

Prerequisite: BSE 403. For experienced teachers of business education in grades 9-12; research and recent developments in teaching business education. 2(2-0), D

**SEC 707 Seminar in Current Trends in Teaching Mathematics**

Prerequisite: MTH 409. For experienced teachers of mathematics in grades 9-12; research in recent trends and developments in teaching mathematics. 2(2-0), F

**SEC 708 Seminar in Current Trends in the Teaching of Biology**

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. 2(2-0), D

**SEC 783 Internship in Teaching I**

Prerequisite: SFR 797; complete appropriate background check and obtain current professional liability insurance. 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 complete an on-going seminar through online or literature based delivery systems. Students will implement an initial Teacher Work Sample in a classroom under the supervision of a cooperating teacher. 3(1-4), D

**SEC 784 Internship in Teaching II**

Prerequisite: SEC 783; and acceptance into the Master of Arts in Teaching degree program. The candidate must have passed the appropriate Praxis II examination, obtained current pre-professional liability insurance, completed the appropriate background check and be approved for supervised teaching. A semester-based 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 and implement a Teacher Work Sample required for graduation. The candidate's professional portfolio should be completed during this course. 10(2-16), D

**SEC 785 Internship in Teaching III**

Prerequisite: SEC 783 and SEC 784. Students will complete a professional preparation portfolio. The professional portfolio will be evaluated by instructors in order to determine how well the candidate demonstrated understanding of DESE content standards and MoSTEP quality indicators. 1, D

**Secondary Education, Foundations and Educational Research Courses**

**SFR 250 Foundations of American Education**

Prerequisite: completion of 30 semester hours. This course introduces education majors to the departments. 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. 3(3-0) D

**SFR 305 Field Experiences in Education**

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. 1(0-2) or 2(0-4) F,S

**SFR 351 Philosophical Problems of Education**

Prerequisite: admitted to Teacher Education Program. 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. 2(2-0) D

**SFR 353 History of Educational Thought**

Prerequisite: admitted to Teacher Education Program. The history of major educational ideas and their relationships to contemporary educational theories and practices. 2(2-0) D

**SFR 354 Social and Philosophical Foundations of American Education**

Prerequisite: admitted to Teacher Education Program. 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. 2(2-0) D

**SFR 396 Student Assessment and Evaluation**

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. 2(2-0) D

**SFR 399 Problems in Education**

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. 1-3 D

**SFR 442 Techniques of Classroom Management**

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. 2(2-0) D

**SFR 444 Approaches to Individualizing Education**

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. 2(2-0) D

**SFR 482 Teacher Relationships with the School of Society**

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. 2(2-0) D

**SFR 486 Management and Assessment in the Middle and Secondary Classroom**

Prerequisite: admission to Teacher Education Program and PSY 360, or equivalent competencies. Planning, constructing, using, and analyzing a variety of assessment practices and understanding uses of standardized testing in education. Covers adolescent social behavior, management theory and strategies that promote effective learning and development while minimizing disruptive behavior. Application of theory to classroom practice and everyday situations. Identical with PSY 486. Cannot receive credit for both SFR 486 and PSY 486. 3(3-0) F,S,Su

**SFR 521 Techniques for Teaching Adults**

Prerequisite: admitted to Teacher Education Program. A survey of the principles, objectives and trends in instructional techniques for adult education. May be taught concurrently with SFR 621. Cannot receive credit for both SFR 621 and SFR 521. 3(3-0) D

**SFR 547 Guidance and Interpersonal Relationships in the Classroom**

Prerequisite: admitted to Teacher Education Program. Appropriate classroom communication and interpersonal skills. Emphasis on the relationship between self concept development and achievement in a diverse student population. May be taught concurrently with SFR 647. Cannot receive credit for both SFR 647 and SFR 547. 2(2-0) D

**SFR 576 Topical Issues in Education**

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. May be taught concurrently with SFR 676. Cannot receive credit for both SFR 676 and SFR 576. 1-5 D

**SFR 581 Law and the Classroom Teacher**

Prerequisite: admitted to Teacher Education Program. 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. May be taught concurrently with SFR 681. Cannot receive credit for both SFR 681 and SFR 581. 2(2-0) D

**SFR 583 Contemporary Issues in Education**

Prerequisite: admitted to Teacher Education Program. 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. May be taught concurrently with SFR 682. Cannot receive credit for both SFR 682 and SFR 583. 2(2-0) D

**SFR 595 Applications of Educational Measurement**

Prerequisite: admitted to Teacher Education Program. Using the results of testing in schools. The role, advantages, and limitations of evaluative instruments and techniques in educational decision making. May be taught concurrently with SFR 695. Cannot receive credit for both SFR 695 and SFR 595. 2(2-0) D

**SFR 621 Techniques for Teaching Adults**

A survey of the principles, objectives and trends in instructional techniques for adult education. May be taught concurrently with SFR 521. Cannot receive credit for both SFR 521 and SFR 621. 3(3-0), D

**SFR 647 Guidance and Interpersonal Relationships in the Classroom**

Appropriate classroom communication and interpersonal skills. Emphasis on the relationship between self concept development and achievement in a diverse student population. May be taught concurrently with SFR 547. Cannot receive credit for both SFR 547 and SFR 647. 2(2-0), D

**SFR 676 Topical Issues in Education**

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. May be taught concurrently with SFR 576. Cannot receive credit for both SFR 576 and SFR 676. 1-5, D

**SFR 681 Law and the Classroom Teacher**

Prerequisite: Teacher Certification students must be admitted to Teacher Education Program. 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. May be taught concurrently with SFR 581. Cannot receive credit for both SFR 581 and SFR 681. 2(2-0), D

**SFR 682 Contemporary Issues in Education**

Prerequisite: Teacher Certification students must be admitted to Teacher Education Program. 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. May be taught concurrently with SFR 583. Cannot receive credit for both SFR 583 and SFR 682. 2(2-0), D

**SFR 695 Applications of Educational Measurement**

Prerequisite: Teacher Certification students must be admitted to Teacher Education Program. Using the results of testing in schools. The role, advantages, and limitations of evaluative instruments and techniques in educational decision making. May be taught concurrently with SFR 595. Cannot receive credit for both SFR 595 and SFR 695. 2(2-0), D

**SFR 709 Individualizing Instruction**

Training in various procedures for individualizing instruction at all grade levels. 3(3-0), D

**SFR 711 Principles and Organization of Student Activities**

Acquaints teachers and administrators with problems and procedures involved in the organizations and supervision of student activities. 2(2-0), D

**SFR 723 Organization and Administration of Adult Education**

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. 3(3-0), D

**SFR 724 Organization and Administration of Vocational Education**

Problems, procedures and local, state and federal relationships in organization and administration of vocational education in the contemporary school. Identical with AGV 724. May be repeated to a maximum of 3 credit hours. 1-3, D

**SFR 730 Curriculum Construction in the School**

Traditional, humanistic, and behavioristic approaches to advanced curriculum development in the school. 2(2-0), D

**SFR 750 Philosophies of Education**

Philosophical problems of education; philosophical systems in America; their effect upon educational practice. 3(3-0), D

**SFR 753 Comparative Educational Systems**

Comparative analysis of major ideas and institutions of selected international systems of education. Comparisons between international systems of education and systems dominant in America. 2(2-0), D

**SFR 780 Educational Research Methodology**

Survey of research methods used in education; research design and evaluation; problems of interpretation and application; development of a formal research proposal. 3(3-0), F,S,Su

**SFR 781 Educational Research Literacy**

Introduction to the appreciation and understanding of research and common research methods in Education. In addition to basic research concepts, students will learn to read, understand, evaluate, and synthesize research, and explore the application of research results in their professional work. 3(3-0), D

**SFR 791 Educational Workshop**

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. 1-9, D

**SFR 792 Supervision of Student Teachers**

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. 2(2-0), D

**SFR 793 Qualitative Research Methods**

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 firsthand 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. 3(3-0), D

**SFR 794 Research Practicum**

Prerequisite: SFR 780. 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. 1-3, D

**SFR 796 Problems in Education**

Specific problems in education related to needs and interests of the student. May be repeated to a total of 3 hours. 1-3, D

**SFR 797 Advanced Studies in Teaching and Learning**

Prerequisite: admitted to the Master of Arts in Teaching program. The purpose of this course is to develop deep understandings and skills regarding secondary teaching, procedures, methods, curriculum, supervision, administration and foundations. Candidates will be introduced to the electronic portfolio. Portfolio checkpoint one will occur in this course. 9, D

**SFR 799 Thesis**

Prerequisite: SFR 780. May be repeated to a maximum of 6 hours credit. 1-6, D

**SFR 858 Current Issues Affecting Education**

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. 1-3, D

**SFR 890 Field Research and Evaluation**

Prerequisite: SFR 780. 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. 3(3-0), D

Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
published July 2011

Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services

## College of Health and Human Services

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### Academic Units

- [Department of Biomedical Sciences](#)
- [Department of Communication Sciences and Disorders](#)
- [Department of Health, Physical Education and Recreation](#)
- [Department of Nursing](#)
- [Department of Physical Therapy](#)
- [Department of Physician Assistant Studies](#)
- [Department of Psychology](#)
- [Public Health Program](#)
- [School of Social Work](#)
- [Department of Sports Medicine and Athletic Training](#)

### Centers for Research and Service

#### Center for Multidisciplinary Health Education, Research and Services (CMHERS)

The mission of the CMHERS is to provide students, faculty, and other health professionals with high quality multidisciplinary educational, research and service experiences in health care and human services through the integration of health and human services disciplines.

#### 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.

#### Southwest Missouri Area Health Education Center (SWMO AHEC)

The College of Health and Human Services hosts the Southwest Missouri Area Health Education Center (SWMO AHEC). The mission of the center is to promote careers in primary health care through recruitment activities, support clinical placements in rural medically underserved areas and provide support for providers.

#### RStats Institute

RStats provides research, statistical training, analysis and technical support for faculty and students to facilitate and advance scholarly work. RStats Faculty Associates and Graduate Assistants share their expertise in research design and statistical analysis through consultation and workshops on research planning, design and statistical analysis topics.

### Clinics

#### Learning Diagnostic Clinic

The Learning Diagnostic Clinic (LDC) provides evaluation services for students who are seeking accommodations for physiological or learning disabilities. Services are provided to students referred by the Disability Resource Center, and to the general public. The LDC also offers *Project Success*, an academic support program for students who desire more comprehensive services than those covered under the Americans with Disabilities Act (ADA). Graduate Assistants from the Psychology Department's Clinical track gain valuable experiences by working in the LDC. For more information, see the "Student Resources and Services" section of the catalog.

#### Physical Therapy Clinic

The Physical Therapy Clinic (PT) provides specialty care and rehabilitation services for neuromusculoskeletal complaints, assessment and treatment of balance and vestibular problems, and other specialty services to students, faculty, staff, as well as area residents and businesses. Students in the DPT program rotate through the PT Clinic as part of their training.

#### Speech-Language and Hearing Clinic

The Speech-Language and Hearing Clinic (SLP) provides evaluation and treatment for all ages in areas of Speech-Language Pathology, Audiology and early intervention for children who are Deaf or Hard of Hearing. Certified and licenses professionals

supervise all services performed by graduate students of the CSD Department. The SLP Clinic plays a critical role in the development of clinical skills by students, and provides a service to the community in keeping with the University's public affairs mission.

#### **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.

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Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
published July 2011

Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services > Department of Biomedical Sciences

## Department of Biomedical Sciences

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Email: [BiomedicalSciences@missouristate.edu](mailto:BiomedicalSciences@missouristate.edu)  
Website: <http://www.missouristate.edu/bms>  
Department Head: Professor Colette M. Witkowski, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Michael M. Craig, Ph.D.; Richard Garrad, Ph.D.; Helen C. Reid, R.D., Ph.D.; Benjamin F. Timson, Ph.D.

**Associate Professor:** Scott D. Zimmerman, Ph.D.

**Assistant Professors:** Robert K. Delong, Ph.D.; Anne Marie Hunter, Ph.D., R.D., L.D., F.A.D.A.; Sockju Kwon, Ph.D, R.D., L.D.; Rehana S. Lovely, Ph.D.; Joshua J. Smith, Ph.D.

**Senior Instructor:** Carmen Boyd, M.S., L.P.C., R.D., L.D.; Hillary Roberts, M.S., R.D., L.D.

**Instructors:** Natalie Allen, M.S., R.D, L.D.; Rebecca L. Allen, B.S.; Matthew Kling, M.S.; Sarah Murray, M.S., R.D., L.D.; Amy Pearce, M.S.; Joseph Williams, M.S.

**Adjunct Professors:** Marisa K. James MA MLS(ASCP); Kathy Fisher, M.S., CRNA; Monika Feeney, M.S., CRNA; Douglas D. Hubbard, MT(ASCP); Connie Wilkens, MT(ASCP)

**Emeritus Professors:** Paul J. Cameron, M.A.; Harold B. Falls, Jr., Ph.D.; Christopher C. Field, Ph.D.; Albert R. Gordon, Ph.D.; Joanne M. Gordon, M.S.N., Ph.D.; L. Dennis Humphrey, Ed.D.; Wayne C. McKinney, Ph.D.; Harley E. Mortensen, Ph.D.

### Graduate Programs

The following graduate programs are available:

Cell and Molecular Biology (Master of Science); and Nurse Anesthesia (Master of Science).

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Science in Cell and Molecular Biology Program

Majors in cell and molecular biology may be accepted into the Master of Science in Cell and Molecular Biology program after admission requirements for the accelerated master's option are met. Once accepted for early admission, up to 12 credit hours of approved 600 and 700-level coursework may be counted toward both the Bachelor of Science and the Master of Science degree programs. Other required 600-level courses in the master's program that are taken by the undergraduate student, but not included in the accelerated option, may be waived on the master's degree program by the student's graduate advisor if the required courses were taken less than four years previously and the student earned at least a grade of B or better in those courses. Additional graduate coursework to replace waived courses may be needed to meet the 32 hours degree requirement. Accelerated option students must enroll in BMS 730 each semester.

The accelerated option allows cell and molecular biology majors who are interested in biomedical research to complete the requirements for the Master of Science degree in two semesters and a summer rather than the typical four semesters and a summer. Contact the program director in the Department of Biomedical Sciences for 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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

**Nurse Anesthesia (ANE) courses** are open only to those students who have been admitted to the Nurse Anesthesia, Master of Science degree.

**Medical Technology (MTC) 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.

### Majors

#### Cell and Molecular Biology (Comprehensive)

Bachelor of Science

The comprehensive major in 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 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 CHM 161, 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 assessment examination in Cell and Molecular biology.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: CHM 160(4) and 161(1); 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), 171(1), 342(5), 343(5) or 344(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), 552(3)
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 Office of the Registrar 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 Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: BIO 121(4) or BMS 110(4); and CHM 160(4) and CHM 161(1)
- 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 171(1); and CHM 200(5) or CHM 342(5); and BMS 321(4) or CHM 352(3) and CHM 353(2); and statistics (BIO 550 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 302(5) or CHM 352(3) and CHM 353(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 [General Baccalaureate Degree Requirements](#) section of catalog

## Dietetics (Comprehensive)

Bachelor of Science

The Dietetics program is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (800) 877-1600 ext. 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 2.90 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, BMS 308; CHM 105 **OR** CHM 160, 161, CHM 170 and CHM 171 with grades of "C" or better in each of the courses; a Missouri State GPA of at least 2.90; and a combined (Missouri State and transfer) GPA of at least 2.90. Exception to the minimum GPA may be made in unusual cases, but exceptions will be limited to no more than 5 percent of the total number of students admitted to the program.

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education requirements: BMS 110(4); CHM 105(5) or 160(4) and 161(1); CIS 101(2) or CSC 101(2); MTH 135(3) or higher; PSY 121(3); and either SOC 150(3) or ECO 155(3) or AGR 100(3). Other recommended General Education courses include: PHI 105(3) and/or PHI 115(3).
- B. Major Requirements
  1. Biomedical Science Courses: BMS 110(4), 230(3), 240(3), 305(1), 307(4), 308(4), 330(3), 331(4), 332(3), 333(3), 335(3), 338(1), 340(2), 430(3), 438(5), 445(3), 532(3), 536(4), 539(1), 546(4), 550(2), 595(1)
  2. Related Requirements: ACC 109(1); BIO 210(3); CHM 105(5); or (CHM 160(4), 161(1), 170(3) and 171(1)); CHM 200(5) or CHM 201(3); CHM 352(3); CIS 101(2) or CSC 101(2); ENG 321(3); MGT 340(3); MTH 340(3) or 545(3) or PSY 200(3) or QBA 237(3) or SOC 302(3); MTH 135(3) or higher; PSY 121(3); SOC 150(3) or ECO 155(3) or AGR 100(3). Recommended electives: CHM 353(2); MKT 350(3); BMS 345(3)
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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

Bachelor of Science in Athletic Training

Bachelor of Science in Nursing

- 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

Bachelor of Science in Athletic Training

- A. Required Courses: BMS 430(3), 432(3), 467(3), BMS 520(3) or CHM 352(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), 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

Bachelor of Science in Athletic Training

Bachelor of Science in Nursing

- 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(3), 335(3), 340(2), 430(3), 497(1-3), 532(3). No more than 3 hours of BMS 497 credit may be applied to the minor. See Dietetics Program Director for additional courses that may be approved.

## Biomedical Sciences Courses

### BMS 100 Concepts and Issues in the Life Sciences

General Education Course (Natural World). 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. 4(4-0) F,S

### **BMS 105 Concepts and Laboratory in the Life Sciences**

General Education Course (Natural World). 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. 4(3-2) F,S

### **BMS 110 Introduction to the Biomedical Sciences**

Prerequisite: eligibility for both ENG 110 and MTH 135. General Education Course (Natural World). An introduction to concepts and techniques related to human anatomy, physiology, genetics, cellular and molecular biology. Recommended for students in majors within the College of Health and Human Services and those students interested in preprofessional programs and Allied Health careers. Students will receive credit toward graduation for only one of the following: BMS 100 or 105 or 110. Supplemental course fee. May not be taken Pass/Not Pass. 4(3-2) F,S

### **BMS 111 Introductory Laboratory in the Biomedical Sciences**

Prerequisite: BMS 100 or BMS 105 or BIO 102; and eligibility for both ENG 110 and MTH 135. 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. May not be taken Pass/Not Pass. 1(0-2) F,S

### **BMS 113 Introduction to Medical Technology**

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. 1(0-2) S

### **BMS 130 Essentials of Nutrition**

Non health science major course discussing basic concepts of human nutrition which includes carbohydrates, lipids, proteins, vitamins, minerals, absorption, digestion, and energy utilization as they relate to health and food consumption at different stages of the life cycle. Emphasis is placed on early childhood. May not receive credit for both BMS 130 and BMS 240. 3(3-0) F,S

### **BMS 195 Introduction to the Health Professions**

Designed to familiarize students with a variety of health career opportunities, and to provide guidance in early curriculum planning and alternative career options. Identical with HLH 195. Cannot receive credit for both BMS 195 and HLH 195. 1(0-2) F,S

### **BMS 230 Human Genetics**

Prerequisite: "C" grade or better in 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. 3(3-0) F,S

### **BMS 231 Human Genetics with Laboratory**

Prerequisite: "C" grade or better in BMS 110 or BIO 121; and Cell and Molecular Biology or Clinical Laboratory Science-Medical Technology major. 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. Supplemental course fee. 4(3-2) F,S

### **BMS 232 Human Genetics Laboratory**

Prerequisite: BMS 230. 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. 1(0-2) F,S

### **BMS 240 Introduction to Nutrition**

Prerequisite: CHM 105 or CHM 160 and CHM 161, 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. May not receive credit for both BMS 130 and BMS 240. May not be taken Pass/Not Pass. 3(3-0) F,S

### **BMS 260 Biology of Aging**

Prerequisite: BMS 105 or BMS 110 or BIO 121; and either CHM 105 or CHM 106 or CHM 160 and CHM 161. The physiology and biology of aging in humans. Designed for gerontology majors. 4(4-0) F

### **BMS 300 Service Learning in Biomedical Sciences**

Prerequisite: 30 hours and concurrent enrollment in a Biomedical Sciences course designated as service learning offering. 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. 1 F,S

### **BMS 305 Introduction to Nutrition and Dietetics**

Prerequisite: BMS 240 or concurrent enrollment. This course is open only to potential dietetics majors and nutrition majors. 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. 1(0-2) F,S

### **BMS 307 Human Anatomy**

Prerequisite: C grade or better in BMS 110 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 (West Plains course). Supplemental course fee. 4(3-2) F,S

### **BMS 308 Human Physiology**

Prerequisite: "C" grade or better in BMS 307 or BIO 380; and "C" or better in CHM 105 or CHM 160 and CHM 161. 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 (West Plains course). Course cannot be taken Pass/Not Pass. 4(3-2) F,S

### **BMS 310 Nutrition and Physical Activity in Aging**

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. 3(3-0) S

### **BMS 320 Molecular Biology and Metabolism**

Prerequisite: "C" or better in BMS 230 or BMS 231. Recommended Prerequisite: past or concurrent enrollment in CHM 200 or CHM 342. 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. 3(3-0) F,S

### **BMS 321 Biomolecular Interactions**

Prerequisite: "C" grade or better in BMS 231. Recommended Prerequisite: concurrent enrollment in CHM 342. Concentration is on the major classes of biomolecules (proteins, nucleic acids, carbohydrates, and lipids) important in cell and molecular biology that signal, control, and regulate cellular function and the coordination of these interactions. Other topics include: biosynthesis and catabolism of biological macromolecules and related topics in biotechnology, biological nanotechnology and molecular medicine. Laboratory emphasizes hands-on experience with current techniques in biomolecular science. Cannot receive credit for both BMS 320 and BMS 321. 4(3-3) F,S

### **BMS 322 Laboratory Methods in the Biomedical Sciences**

Prerequisite: BMS 320. 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. 1(0-2) D

### **BMS 330 Food Selection and Preparation for Health**

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. Supplemental course fee. 3(2-2) F,S

### **BMS 331 Food Science**

Prerequisite: BMS 240 and BMS 330; and CHM 200 or CHM 201. Experimental approach to the study of physical and chemical factors influencing food quality during processing, preparation and storage. Supplemental course fee. 4(2-4) S

### **BMS 332 Food and Culture**

Prerequisite: BMS 240. Exploration of ethnic, religious and regional influences on nutrition and health status, including the role of diet in traditional health beliefs. 3(3-0) F,S

### **BMS 333 Nutrition Throughout the Life Span**

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. 3(3-0) F

### **BMS 335 Nutritional Assessment**

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. 3(2-2) F

### **BMS 338 Food Safety Certification**

Prerequisite: BIO 210. Sanitation policies and procedures for dietitians, food service professionals, restaurant owners and foodservice employees. Includes chemical, biological, and physical food hazards, basics of food safety systems including HACCP, methods of safe food handling, equipment cleaning and sanitizing, and controlling pests. A 'passing' score on the National ServSafe Food Safety Certification examination is required for a "C" or better in this course. 1(0-2), F, S

### **BMS 340 Nutrition Education and Communications**

Prerequisite: BMS 240; and BMS 330 or concurrent enrollment; 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. 2(1-2) F

### **BMS 345 World Hunger**

Prerequisite: BMS 240 or AGR 100. Global issues related to hunger and nutrition including sustainability, inequity, food production, malnutrition, biotechnology, ecological destruction, population growth, globalization, and aid. 3(3-0) F

### **BMS 380 Cooperative Education in Biomedical Sciences**

Prerequisite: permission of instructor. 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. 1-3 D

**BMS 397 Topics in Heart Healthy Cooking**

Selected topics on heart healthy cooking techniques. Variable content course. Course may be repeated to a maximum of 6 hours provided topics are different. Supplemental course fee (variable by section). 1-3 F,S

**BMS 400 International Service Learning: Malnutrition in Developing Countries**

Prerequisite: 30 hours and permission of instructor. The integrated service learning component for this course incorporates international community service with classroom instruction in nutrition specifically focusing on malnutrition and nutrition education in a developing country. This course provides an integrative learning experience addressing the practice of citizenship and promotes an awareness of and participation in international public affairs. Includes 15 service hours benefiting an international 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 for a maximum of six hours. 2(1-2), S

**BMS 405 Clinical Practicum: Preventive and Rehabilitative Exercise**

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. 1-3 F,S

**BMS 430 Sports Nutrition**

Prerequisite: BMS 240; and BMS 308 or BMS 335. Nutrition 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. 3(3-0) F,S

**BMS 438 Administrative Dietetics**

Prerequisite: BMS 240 and BMS 330 and ACC 109 and MGT 340; and BIO 210 or concurrent enrollment. 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. 5(3-4) F

**BMS 445 Community Nutrition**

Prerequisite: BMS 335 and BMS 536 and PLS 101; and must be taken last spring before expected graduation. 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. 3(2-2) S

**BMS 450 Introduction to Biomedical Biomechanics**

Prerequisite: BMS 308. Biomechanical fundamentals and principles as they apply to the human organism; description of normal motion emphasizing orthopedic biomechanics and neuromuscular control. 3(3-0) S

**BMS 455 Astrobiology**

Prerequisite: introductory course in BMS or BIO; and introductory course in AST, PHY, CHM or GLG. 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. 1(1-0) D

**BMS 460 Biology of HIV/AIDS**

Prerequisite: BMS 100 or BMS 105 or BMS 110 or BIO 100 or BIO 102 or BIO 121, and 60 hours. Biological aspects of infection by HIV (human immunodeficiency virus) the disease syndrome known as AIDS (acquired human immunodeficiency syndrome) and social response to the disease. 1(1-0) S

**BMS 467 Anatomy and Mechanics of Human Motion**

Prerequisite: BMS 307. Biological analysis of normal articulation and body segment motions, emphasizing neuromuscular control. Biomechanical fundamentals and principles that relate to anatomy of human motion. 3(3-0) F

**BMS 490 Peer Instruction in Biomedical Sciences**

Prerequisite: acceptance into Cell and Molecular Biology, Clinical Laboratory Sciences-Medical Technology, or Dietetics program; and 60 hours; and permission of course director. A mentored experience in teaching within the Biomedical Sciences. Students will serve as undergraduate learning assistants (ULAs) in a BMS course along with the instructor and teaching assistants. Students will be required to attend an intersession workshop and weekly sessions for reflection and discussion in addition to their weekly BMS course assignment. Intended for students interested in developing classroom leadership skills. 3 F,S

**BMS 494 Senior Seminar in Cell and Molecular Biology**

Prerequisite: Cell and Molecular Biology major and BMS 521; and 90 hours. 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. 1(1-0) F,S

**BMS 497 Topics in Biomedical Sciences I**

Prerequisite: permission of instructor. 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. Supplemental course fee (variable by section). 1-3 F,S

**BMS 498 Undergraduate Research**

Prerequisite: permission of instructor. Individualized and directed research. May be repeated to a maximum of 8 hours. 1-3 F,S

**BMS 499 Projects in the Biomedical Sciences**

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. 1-3 F,S

**BMS 500 Special Topics in Biomedical Sciences II**

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. May be taught concurrently with BMS 602. Cannot receive credit for both BMS 500 and BMS 602. 1-4 D

**BMS 514 Scanning Electron Microscopy**

Prerequisite: 60 credit hours. 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. May be taught concurrently with BMS 614. Cannot receive credit for both BMS 514 and BMS 614. 2(1-2) F

**BMS 516 Transmission Electron Microscopy**

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. May be taught concurrently with BMS 616. Cannot receive credit for both BMS 516 and BMS 616. 4(2-4) S

**BMS 520 Medical Cell Biology**

Prerequisite: C grade or better in BMS 320 or BMS 321. 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. May be taught concurrently with BMS 620 . Cannot receive credit for both BMS 520 and BMS 620. 3(3-0) F,S

**BMS 521 Molecular Cell Biology**

Prerequisite: C grade or better in BMS 321; and CHM 200 or CHM 342. 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. May be taught concurrently with BMS 622. Cannot receive credit for both BMS 521 and BMS 622. Supplemental course fee. 4(3-3) F,S

**BMS 524 Virology**

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. May be taught concurrently with BMS 624. Cannot receive credit for both BMS 524 and BMS 624. 3(2-2) S

**BMS 525 Molecular Biology**

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. May be taught concurrently with BMS 625 . Cannot receive credit for both BMS 525 and BMS 625. 4(3-3) F,S

**BMS 528 Molecular Mechanisms of Bacterial Pathogenesis**

Prerequisite: BMS 521. 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. May be taught concurrently with BMS 628. Cannot receive credit for both BMS 528 and BMS 628. 2(2-0) F

**BMS 529 Molecular Genetics**

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. May be taught concurrently with BMS 629. Cannot receive credit for both BMS 529 and BMS 629. 3(2-2) F

**BMS 530 Cell Biology of Cancer**

Prerequisite: C grade or better in BMS 521 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. May be taught concurrently with BMS 631. Cannot receive credit for both BMS 530 and BMS 631. 2(2-0) S

**BMS 532 Human Nutrition and Metabolism**

Prerequisite: BMS 240 and BMS 308; and CHM 200 or CHM 201 or concurrent enrollment in CHM 200 or CHM 201. Food nutrients, their digestion, absorption and metabolism. Methods of determining requirements and interrelationships of nutrients. 3(3-0) S

**BMS 535 Signal Transduction**

Prerequisite: BMS 521. 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. May be taught concurrently with BMS 635. Cannot receive credit for both BMS 535 and BMS 635. 2(2-0) S

**BMS 536 Medical Nutrition Therapy I**



Prerequisite: admission to Dietetics Program; and BMS 335 and BMS 532; and CHM 352 or concurrent enrollment. Principles and application of medical nutrition therapy as related to disease and stress. Transportation required. 4(3-2) F

**BMS 539 Senior Seminar in Dietetics**

Prerequisite: admission to the Dietetics Program, and must be taken last fall before expected graduation. 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. 1(0-2) F

**BMS 540 Biotechnology**

Prerequisite: C grade or better in BMS 321 or BIO 310 or BIO 320 or CHM 352. 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. May be taught concurrently with BMS 640. Cannot receive credit for both BMS 540 and BMS 640. 2(2-0) S

**BMS 546 Medical Nutrition Therapy II**

Prerequisite: BMS 536. Principles and application of medical nutrition therapy as related to complex disease states. Transportation required. 4(3-2) S

**BMS 550 Nutrition Counseling**

Prerequisite: BMS 340; and BMS 536 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. 2(1-2) F

**BMS 558 Recombinant DNA Techniques**

Prerequisite: C grade or better in BMS 525. A laboratory intensive course designed to extend the molecular biology principles and current techniques used in gene cloning, site-directed mutagenesis, transformation of eukaryotic cells, designing gene expression vectors, performing molecular hybridization techniques, confirming gene expression through reverse transcriptase PCR, and DNA sequencing. May be taught concurrently with BMS 658. Cannot receive credit for both BMS 558 and BMS 658. 3(1-4) F,S

**BMS 561 Medical and Pathologic Physiology**

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. May be taught concurrently with BMS 661. Cannot receive credit for both BMS 561 and BMS 661. 4(4-0) F,S

**BMS 562 Medical and Pathologic Physiology Laboratory**

Prerequisite: permission of instructor. Experience using laboratory techniques and case studies to enhance knowledge of pathophysiology. May be taught concurrently with BMS 660. Cannot receive credit for both BMS 562 and BMS 660. 1(0-2) F,S

**BMS 563 Advanced Work Physiology**

Prerequisite: C grade or better in BMS 308; and C grade or better in BMS 567 or PED 362. 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. May be taught concurrently with BMS 663. Cannot receive credit for both BMS 563 and BMS 663. 3(3-0) S

**BMS 564 Molecular Endocrinology and Reproductive Physiology**

Prerequisite: BMS 308; and either BMS 321 or CHM 352. A detailed examination of the physiological, cellular and molecular aspects of human reproduction with particular emphasis on the endocrine aspects of reproduction. May be taught concurrently with BMS 664. Cannot receive credit for both BMS 564 and BMS 664. 3(3-0) D

**BMS 565 Human Cardiopulmonary Physiology**

Prerequisite: BMS 308; and either BMS 321 or CHM 352. 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. May be taught concurrently with BMS 665. Cannot receive credit for both BMS 565 and BMS 665. 3(3-0) F,S

**BMS 567 Physiology of Exercise Metabolism**

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. May be taught concurrently with BMS 667. Cannot receive credit for both BMS 567 and BMS 667. 4(3-2) F,S

**BMS 568 Physiology of the Human Gastrointestinal and Urinary Systems**

Prerequisite: BMS 308; and either BMS 321 or CHM 352. Structure and function of the gastrointestinal and urinary systems including pathophysiology of common clinical conditions. May be taught concurrently with BMS 668. Cannot receive credit for both BMS 568 and BMS 668. 3(3-0) D

**BMS 569 Neurobiology**

Prerequisite: C grade or better in BMS 308. Study of the mammalian nervous system including anatomy and principles of function. May be taught concurrently with BMS 669. Cannot receive credit for both BMS 569 and BMS 669. 3(3-0) S

**BMS 570 Principles of Pharmacology**

Prerequisite: "C" grade or better in BMS 308. Recommended Prerequisite: BMS 521. Overview of the aspects of pharmacology including: pharmacodynamics, pharmacokinetics, pharmacogenomics, drug selectivity, toxicity, metabolism, drug development, and drug regulation. Additionally, an overview of the major classification of drugs and their mechanisms of action will be presented. May be taught concurrently with BMS 670. Cannot receive credit for both BMS 570 and BMS 670. 3(3-0), S

**BMS 582 Embryology**

Prerequisite: C grade or better in 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. May be taught concurrently with BMS 682. Cannot receive credit for both BMS 582 and BMS 682. 4(2-4) S

**BMS 584 Molecular Mechanisms in Animal Development**

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. May be taught concurrently with BMS 686. Cannot receive credit for both BMS 584 and BMS 686. 3(3-0) S

**BMS 585 Histology**

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. May be taught concurrently with BMS 688. Cannot receive credit for both BMS 585 and BMS 688. 4(2-4), F

**BMS 593 Bioinformatics and Biomedical Resources**

Prerequisite: C or better in BMS 321. Use of biomedical source materials and methods of data access, selection, organization, and evaluation. May be taught concurrently with BMS 693. Cannot receive credit for both BMS 593 and BMS 693. 2(2-0) F,S

**BMS 595 Introduction to Research in Dietetics**

Prerequisite: completion of 90 hours of coursework, including BMS 335, BMS 532, and statistics; QBA 237 or SOC 302 or PSY 200 or MTH 340 or MTH 545. 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. 1(0-2) F,S

**BMS 599 Health Literacy in the Human Services**

Prerequisite: junior standing and permission of instructor. This online course offers an interdisciplinary approach to understanding functional health literacy and how the public's literacy skills affect interactions with health and human services professionals. Includes an examination of the data for national and international literacy levels and populations at risk for low literacy; research on health literacy; assessment tools; and practical techniques for addressing literacy issues in spoken and written communications at the practitioner and organizational levels. Identical with SWK 599. Cannot receive credit for both BMS 599 and SWK 599. 3(3-0) S

**BMS 602 Special Topics in Biomedical Sciences II**

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. May be taught concurrently with BMS 500. Cannot receive credit for both BMS 500 and BMS 602. 1-4, D

**BMS 614 Scanning Electron Microscopy**

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. May be taught concurrently with BMS 514. Cannot receive credit for both BMS 514 and BMS 614. 2(1-2), F

**BMS 616 Transmission Electron Microscopy**

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. May be taught concurrently with BMS 516. Cannot receive credit for both BMS 516 and BMS 616. 4(2-4), S

**BMS 620 Medical Cell Biology**

Prerequisite: admission to the MS in Nurse Anesthesia program. Focus on the molecular aspects of cell biology for students in the Nurse Anesthesia program. Content identical to the lecture part of BMS 622. Cannot receive credit for both BMS 620 and 622. May be taught concurrently with BMS 520. Cannot receive credit for BMS 520 and BMS 620. 3(3-0), F, S

**BMS 622 Molecular Cell Biology**

Prerequisite: 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 620 and 622. May be taught concurrently with BMS 521. Cannot receive credit for BMS 521 and BMS 622. 4(3-3), F, S

**BMS 624 Virology**

Prerequisite: BMS 622. The molecular biology and pathogenicity of animal viruses; basic techniques of tissue culture and virology will be performed in the laboratory. May be taught concurrently with BMS 524. Cannot receive credit for BMS 524 and BMS 624. 3(2-2), S



#### **BMS 625 Molecular Biology**

Prerequisite: permission of the instructor. 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. May be taught concurrently with BMS 525. Cannot receive credit for BMS 525 and BMS 625. 4(3-3), F, S

#### **BMS 628 Molecular Mechanisms of Bacterial Pathogenesis**

Prerequisite: BMS 622. 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. May be taught concurrently with BMS 528. Cannot receive credit for both BMS 528 and BMS 628. 2(2-0), F

#### **BMS 629 Molecular Genetics**

Prerequisite: BMS 625. Recent advances in the molecular aspects of genetics; mammalian DNA will be characterized and manipulated using modern molecular techniques. May be taught concurrently with BMS 529. Cannot receive credit for both BMS 529 and BMS 629. 3(2-2), F

#### **BMS 631 Cell Biology of Cancer**

Prerequisite: BMS 622. 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. May be taught concurrently with BMS 530. Cannot receive credit for both BMS 530 and BMS 631. 2(2-0), S

#### **BMS 635 Signal Transduction**

Prerequisite: BMS 622. 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. May be taught concurrently with BMS 535. Cannot receive credit for both BMS 535 and BMS 635. 2(2-0), S

#### **BMS 640 Biotechnology**

Prerequisite: permission of instructor. 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 pharmaco corporations. May be taught concurrently with BMS 540. Cannot receive credit for both BMS 540 and BMS 640. 2(2-0), S

#### **BMS 658 Recombinant DNA Techniques**

Prerequisite: C grade or better in BMS 625. A laboratory intensive course designed to extend the molecular biology principles and current techniques used in gene cloning, site-directed mutagenesis, transformation of eukaryotic cells, designing gene expression vectors, performing molecular hybridization techniques, confirming gene expression through reverse transcriptase PCR, and DNA sequencing. May be taught concurrently with BMS 558. Cannot receive credit for both BMS 558 and BMS 658. 3(1-4) F,S

#### **BMS 660 Medical and Pathologic Physiology Laboratory**

Prerequisite: admission to MS in Cell and Molecular Biology or MS in Nurse Anesthesia Program. Experience using laboratory techniques and case studies to enhance knowledge of pathophysiology. May be taught concurrently with BMS 562. Cannot receive credit for both BMS 562 and BMS 660. 1(0-2), F, S

#### **BMS 661 Medical and Pathologic Physiology**

Prerequisite: admission to MS in Cell and Molecular Biology or MS in Nurse Anesthesia Program. 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. May be taught concurrently with BMS 561. Cannot receive credit for both BMS 561 and BMS 661. 4(4-0), F, S

#### **BMS 663 Advanced Work Physiology**

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. May be taught concurrently with BMS 563. Cannot receive credit for both BMS 563 and BMS 663. 3(3-0), S

#### **BMS 664 Molecular Endocrinology and Reproductive Physiology**

A detailed examination of the physiological, cellular and molecular aspects of human reproduction with particular emphasis on the endocrine aspects of reproduction. May be taught concurrently with BMS 564. Cannot receive credit for both BMS 564 and BMS 664. 3(3-0), D

#### **BMS 665 Human Cardiopulmonary Physiology**

Prerequisite: admission to MS in Cell and Molecular Biology or MS in Nurse Anesthesia program. 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. May be taught concurrently with BMS 565. Cannot receive credit for both BMS 565 and BMS 665. 3(3-0), F,S

#### **BMS 667 Physiology of Exercise Metabolism**

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 be taught concurrently with BMS 567. Cannot receive credit for both BMS 567 and BMS 667. 4(3-2), F,S

**BMS 668 Physiology of the Human Gastrointestinal and Urinary Systems**

Structure and function of the gastrointestinal and urinary systems including pathophysiology of common clinical conditions. May be taught concurrently with BMS 568. Cannot receive credit for both BMS 568 and BMS 668. 3(3-0), D

**BMS 669 Neurobiology**

Prerequisite: permission of instructor. Study of the mammalian nervous system including anatomy and principles of function. May be taught concurrently with BMS 569. Cannot receive credit for both BMS 569 and BMS 669. 3(3-0), S

**BMS 670 Principles of Pharmacology**

Prerequisite: permission of instructor. Recommended Prerequisite: BMS 622. Overview of the aspects of pharmacology including: pharmacodynamics, pharmacokinetics, pharmacogenomics, drug selectivity, toxicity, metabolism, drug development, and drug regulation. Additionally, an overview of the major classification of drugs and their mechanisms of action will be presented. May be taught concurrently with BMS 570. Cannot receive credit for both BMS 670 and BMS 570. 3(3-0), S

**BMS 682 Embryology**

Recommended Prerequisite: human anatomy. 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. May be taught concurrently with BMS 582. Cannot receive credit for both BMS 582 and BMS 682. 4(2-4), S

**BMS 686 Molecular Mechanisms in Animal Development**

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. May be taught concurrently with BMS 584. Cannot receive credit for both BMS 584 and BMS 686. 3(3-0), S

**BMS 688 Histology**

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. May be taught concurrently with BMS 585. Cannot receive credit for both BMS 585 and BMS 688. 4(2-4), F

**BMS 693 Bioinformatics and Biomedical Resources**

Prerequisite: permission of instructor. Use of biomedical source materials and methods of data access, selection, organization, and evaluation. May be taught concurrently with BMS 593. Cannot receive credit for both BMS 593 and BMS 693. 2(2-0), F,S

**BMS 700 Introduction to Graduate Studies in the Biomedical Sciences**

Prerequisite: admission to MS in Nurse Anesthesia program. Study of the researcher role, the research process, and research ethics relating to the biomedical sciences. 3(3-0), F,S

**BMS 701 Research in the Biomedical Sciences**

Prerequisite: admission to MS in Cell and Molecular Biology program; and statistics: MTH 645 or BIO 650 or PSY 711 or concurrent enrollment in statistics. Focus on research skills, scientific writing, and professional development. 3(3-0), F,S

**BMS 707 Medical Human Anatomy**

Prerequisite: admission to Doctor of Physical Therapy program. 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. Identical with PTE 707. Cannot receive credit for both BMS 707 and PTE 707. 6(3-10), F

**BMS 711 Microbial Genetics**

Prerequisite: BMS 622. 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. 2(1-2), S

**BMS 717 Medical Human Anatomy and Radiology**

Prerequisite: admission to the Physician Assistant Studies program. 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. Identical with PAS 717. Cannot receive credit for both BMS 717 and PAS 717. 6(3-11), S

**BMS 726 Advanced Topics in Cell and Molecular Biology**

Prerequisite: permission of instructor. 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 726 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. 1-4, F,S

**BMS 727 Human Gross Anatomy**

Prerequisite: admission to MS in Nurse Anesthesia program. In-depth study of the gross anatomy of the human body in areas of

interest relating to administration of anesthesia. Supplemental course fee. 2(1-3), F

**BMS 730 Current Literature Topics**

Prerequisite: admission to MS in Cell and Molecular Biology program. 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. 1(1-0), F,S

**BMS 732 Clinical Preventive Medicine**

Prerequisite: permission of instructor. A review of current scientific evidence regarding effective screening tests and interventions to improve health status. 3(3-0), S

**BMS 752 Medical Physiology**

Prerequisite: admission to Physician Assistant Studies program or Doctor of Physical Therapy program or MS in Cell and Molecular Biology program. 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. 3(3-0), S

**BMS 784 Developmental Genetics**

Prerequisite: BMS 625. 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. 2(2-0), D

**BMS 785 Histology and Tissue Biology**

Prerequisite: admission to MS in Nurse Anesthesia program or MS in Cell and Molecular Biology 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. 2(1-2), S

**BMS 797 Non-Thesis Project**

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. 2, F,S

**BMS 798 Research**

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. 1-6, F,S

**BMS 799 Thesis**

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. 1-6, F,S

## Medical Technology Courses

**MTC 401 Clinical Chemistry**

Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents, utilizing both manual and instrumental techniques including automation and special procedures. 9-12 D

**MTC 402 Clinical Microscopy-Urinalysis**

Principles and techniques of the physical, chemical and microscopic examination of urine and other excreta as related to disease processes. 1-3 D

**MTC 403 Hematology-Coagulation**

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. 4-6 D

**MTC 404 Serology-Immunology**

The science of immunity including antibody development, principles of antigen-antibody interactions, and techniques of serological testing for various disease states. 3-4 D

**MTC 405 Clinical Microbiology**

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. 7 D

**MTC 406 Blood Bank-Immunoematology**

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. 3-5 D

**MTC 407 Special Topics in Medical Technology-Education and Management**

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. 2 D

## Nurse Anesthesia Courses

### **ANE 702 Clinical Conference I**

Review of significant cases involving complex anesthesia considerations. 1(1-0), F, S

### **ANE 705 Clinical Conference II**

Prerequisite: ANE 702. A review of significant cases involving complex anesthesia considerations. 1(1-0), F,S

### **ANE 708 Clinical Conference III**

Prerequisite: ANE 705. Continuing review of significant cases involving complex anesthesia considerations. 1(1-0), F,S

### **ANE 711 Clinical Conference IV**

Prerequisite: ANE 708. Continuing review of significant cases involving complex anesthesia considerations. 1(1-0), F,S

### **ANE 714 Orientation to Clinical Anesthesia**

Prerequisite: permission from program director. Introduction to anesthesia equipment, monitoring equipment, positioning, intravenous considerations, records, departmental management, ethics, departmental organization and function, legal and professional aspects. 1(1-0), F, S

### **ANE 717 Physics and Chemistry of Anesthesia**

A presentation of the principles and laws of physics and chemistry applicable to the field of anesthesia. 1(1-0), F, S

### **ANE 720 Basic Principles of Anesthesia**

A presentation of the principles of laws of physics and chemistry applicable to the field of anesthesia long with an in-depth analysis of structure and function of the cardiac, respiratory, circulatory, endocrine, hepatic, renal, neurologic, autonomic, and central nervous systems. 3(3-0), F,S

### **ANE 723 Application of Anatomy and Physiology to Anesthesia II**

An in-depth analysis of the special relationships between anesthesiology and the endocrine, hepatic, renal, neurologic, autonomic, and central nervous systems. 1(1-0), F, S

### **ANE 726 Introduction to Clinical Anesthesia**

Preoperative evaluation of patients, airway management, inhalation techniques, common complications of induction and emergence. 2(2-0), F, S

### **ANE 732 Advanced Anesthesia Principles I**

Prerequisite: ANE 720. An in-depth review of drugs commonly used to provide the state of anesthesia, review of subjects essential to the practice of anesthesia; emphasis on pediatrics, neonatal, critical care anesthesia, trauma and burns, organ transplants and organ retrieval, obesity and GI disorders, and a study of the requirements for specialized anesthesia care; regional anesthesia, chronic pain, cardiac, and vascular anesthesia. 6(6-0) F

### **ANE 735 Clinical Practicum**

Prerequisite: permission of instructor. Clinical experience in the anesthesiology department at St. John's Regional Health Center. Specialty content may be included as part of the practicum experience. Section 4 taken in the fourth clinical semester includes specialty content related to professional/legal aspects of nurse anesthesia and cardiovascular anesthesia. May be repeated to a total of 26 hours. Graded Pass/Not Pass only. 1-4, F,S,Su

### **ANE 744 Pharmacology in Anesthesia**

Prerequisite: ANE 720. A review of the effects of drugs required by patients with preexisting medical conditions and their continuation in the perioperative period. 2(2-0), Su

### **ANE 750 Advanced Anesthesia Principles II**

Prerequisite: ANE 720. A review of the special anesthetic considerations for: anesthesia delivery systems, pre-operative evaluation, monitoring, professional liability, rare and coexisting diseases, hemotherapy and hemostasis, post-anesthesia recovery, minimally invasive procedures, orthopedic, geriatric, outpatient anesthesia, airway management, respiratory physiology and function, thoracic surgery, neuro surgery, patients with liver and kidney disease, acid-base disturbances, and patients undergoing urologic, ophthalmic, and otolaryngologic surgery. 4(4-0), S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services > Department of Communication Sciences and Disorders

## Department of Communication Sciences and Disorders

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Email: [CommunicationSciencesandDisorders@missouristate.edu](mailto:CommunicationSciencesandDisorders@missouristate.edu)  
Website: <http://www.missouristate.edu/CSD/>  
Department Head: Professor Neil J. DiSarno, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Klaas Bakker, Ph.D.; Julie J. Masterson, Ph.D.; Lisa A. Proctor, Ph.D.

**Associate Professors:** Thomas C. Franklin, Ph.D.; Wafaa A. Kaf, Ph.D.; Letitia White, Ph.D.

**Assistant Professors:** Jason L. Box, Au.D.; Clifford A. Franklin, Ph.D.; Ye (Angel) Wang, Ph.D.

**Clinical Faculty:** Elisabeth C. Bell, M.A.; Deborah Cron, M.Ed.; Karen Engler, M.A.; Jennifer Franklin, Au.D.; Jaime Lanois, Au.D.; Tara Oetting, M.S.

**Clinical Director:** Mary Jill Oswald, M.A.

**Emeritus Professors:** Herbert J. Arkebauer, Ph.D.; Harold W. Meyers, Ph.D.; Ronald W. Netsell, Ph.D.

### 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.

### Graduate Programs

The following graduate programs are available:

Communication Sciences and Disorders with options in Education of the Deaf and Hard of Hearing, and in Speech-Language Pathology (Master of Science); Doctor of Audiology.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Science in Communication Sciences and Disorders/Education of Deaf and Hard of Hearing

This option provides an opportunity for Missouri State undergraduate students to begin graduate coursework during the senior year, and complete the program in three graduate semesters. Students should consider applying to the Accelerated Masters Program in the spring of their junior year. If accepted to the program, a maximum of 12 hours of graduate courses may count toward both the undergraduate and the graduate degree (Mixed Credit). Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

#### The Speech-Language and 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.

#### Personalized 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.

### Majors

#### Communication Sciences and Disorders (Comprehensive)

Bachelor of Science

#### 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. Please check with your advisor concerning any options for any of these courses.
  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 InquirySpecial 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.

#### Program Requirements

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements
  1. Core: CSD 312(3), 321(3), 360(3), 370(3); CSD 495(2) and 496(2) or EDHH students substitute CSD 497(3); CSD 572(3); PSY 121
  2. Options (select one):
    - a. **Audiology:** ENG 296(3); CSD 210(3), 216(3), 315(3), 316(3), 362(3), 380(3), 482(3), 484(3), 562(3)
    - b. **Education of Deaf and Hard of Hearing:** EDC 150(1); SPE 310(3); CSD 322(3), 330(3), 331(3), 380(3), 562(3). Does not prepare students for teacher certification or entry into the CSD Accelerated M.S. EDHH students pursuing a career as a certified teacher of the deaf and hard of hearing should consider applying to the Accelerated Masters Program in the spring of their junior year. Education of the Deaf and Hard of Hearing Accelerated Masters students also take the following major requirements: CSD 760(3), 762(3), 763(3), 795(3) for undergraduate and graduate credit and additional coursework to meet state of Missouri teacher certification requirements. See certification requirements below.
    - c. **Speech-Language Pathology:** ENG 296(3), CSD 210(3), 216(3), 315(3), 316(3), 362(3), 400(3), 482(3), 484(3), 522(3), 580(3)
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

Note: CSD majors may not take any CSD course on a Pass/Not Pass basis.

#### Certification Requirements for 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 [Teacher Certification, Teacher Education Program and Secondary Education 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.

## Communication Sciences and Disorders Courses

### CSD 201 Introduction to Communication Disorders

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. 3(3-0) F,S

### CSD 209 Basics of Linguistics for the Communication Sciences

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. 2(2-0) F,S

### CSD 210 Phonetics

Instructional and laboratory application of international phonetic alphabet in transcribing normal/disordered American English. 3(2-2) F,S

### CSD 216 Anatomy and Physiology of Speech

Particular structure and functions of human anatomy related to the processes of speech. 3(3-0) F

### CSD 260 Survey of Interests in Deaf and Hard of Hearing

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. 3(3-0) F

### CSD 312 Normal Language Acquisition

Theories and sequence of normal language development, emphasizing phonological, morphological, syntactic, semantic, and pragmatic abilities. Emphasis on first six years. 3(3-0) F,S,Su

**CSD 315 Speech and Language Disorders in Children**

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. 3(3-0) S

**CSD 316 Speech and Language Disorders in Adults**

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. 3(3-0) S

**CSD 321 Conceptually Accurate Signed English I**

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. 3(3-0) F

**CSD 322 Conceptually Accurate Signed English II**

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. 3(3-0) F

**CSD 330 Introduction to American Sign Language ASL**

Prerequisite: permission. 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. May be taught concurrently with CSD 730. Cannot receive credit for both CSD 330 and CSD 730. 3(3-0) F

**CSD 331 American Sign Language (ASL) II**

Prerequisite: permission. An advanced beginning level course in American Sign Language. Students will gain more complex introductory 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. 3(3-0), S

**CSD 360 Hearing Science**

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. 3(3-0) F

**CSD 362 Speech Science**

Prerequisite: CSD 216. Analysis of research on the acoustic parameters, the perceptual and productive processes of normal speech. 3(3-0), S

**CSD 370 Audiology**

Prerequisite: CSD 360. Principles of hearing measurement: test methods, screening methods, test interpretation. 3(3-0) S

**CSD 380 Development, Diversity, and Deafness**

Includes prevalence, terminology and the effects of hearing loss and its management on child development. Comprehensive scope of communication options will be explored. Exceptionalities, including cultural and linguistic differences among individuals who are deaf or hard of hearing will be considered within the context of family and development, both educationally and socially. 3(3-0), F,S

**CSD 400 Introduction to Research in Communication Sciences and Disorders**

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. 3(3-0) F

**CSD 482 Introduction to Clinical Methods**

A study of assessment and treatment principles, methods and procedures relating to speech, language and hearing disorders. 3(3-0) S

**CSD 484 Introduction to Practice Settings on Communication Sciences and Disorders**

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. 3(3-0) F

**CSD 492 Issues in Communication Sciences and Disorders**

Prerequisite: permission. 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. 1-3 F,S

**CSD 495 Observation Clinical Practicum I**

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. 2(1-2) F

**CSD 496 Observation Clinical Practicum II**

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. 2(1-2) S



**CSD 497 Observation Clinical Practicum**

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, professional competencies, reflective decision-making, technical writing and implementation of discipline-specific practices. 3(1-3), F

**CSD 522 Neural Bases of Human Communication**

Study of the nervous system and its role in normal and abnormal speech and language processing. May be taught concurrently with CSD 623. Cannot receive credit for both CSD 623 and CSD 522. 3(3-0), F

**CSD 562 Psycho-Social Implications of Being Deaf and Hard of Hearing**

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. Introduction to adolescent development and psychology of learning of the typical child. May be taught concurrently with CSD 669. Cannot receive credit for both CSD 669 and CSD 562. 3(3-0), S

**CSD 572 Aural Rehabilitation**

Prerequisite: CSD 360. Principles of habilitation/rehabilitation of communication disorders related to hearing impairment. Types of amplification and assistive listening devices used in classrooms. Issues of classroom acoustics and ways to optimize the classroom listening environment. May be taught concurrently with CSD 673. Cannot receive credit for both CSD 673 and CSD 572. 3(3-0), S

**CSD 580 Technical Solutions in Communication Disorders**

Review and demonstration of current hard- and software systems for the evaluation, treatment, and research of communication disorders. May be taught concurrently with CSD 681. Cannot receive credit for both CSD 681 and CSD 580. 3(3-0) F,S

**CSD 623 Neural Bases of Human Communication**

Prerequisite: permission. Study of the nervous system and its role in normal and abnormal speech and language processing. May be taught concurrently with CSD 522. Cannot receive credit for both CSD 522 and CSD 623. 3(3-0), F

**CSD 669 Psycho-Social Implications of Being Deaf and Hard of Hearing**

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. Introduction to adolescent development and psychology of learning of the typical child. May be taught concurrently with CSD 562. Cannot receive credit for both CSD 562 and CSD 669. 3(3-0), S

**CSD 673 Aural Rehabilitation**

Prerequisite: permission. Principles of habilitation/rehabilitation of communication disorders related to hearing impairment. Types of amplification and assistive listening devices used in classrooms. Issues of classroom acoustics and ways to optimize the classroom listening environment. May be taught concurrently with CSD 572. Cannot receive credit for both CSD 572 and CSD 673. 3(3-0), S

**CSD 681 Technical Solutions in Communication Disorders**

Prerequisite: permission. Review and demonstration of current hard- and software systems for the evaluation, treatment, and research of communication disorders. May be taught concurrently with CSD 580. Cannot receive credit for both CSD 580 and CSD 681. 3(3-0), F,S

**CSD 701 Research: Deaf and Hard of Hearing**

Prerequisite: permission. 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. 1(1-0), Su

**CSD 702 Research Methods in Communication Disorders**

Prerequisite: permission. Nature of qualitative and quantitative research methodology, experimental design, scientific writing, and the exploration of efficacy and effectiveness in evidence-based practice. Examination of research literature through critical reviews of articles. The design of research pertaining to speech, language and hearing functions, and the analysis of data. 3(3-0), F,S

**CSD 710 Developmental Psycholinguistics**

Prerequisite: permission. Presentation of current theories associated with psycholinguistic development. Focus will be on auditory perception, individual differences, cognitive hypotheses, and stage transition. 3(3-0), F

**CSD 712 Child Language I**

Prerequisite: permission. 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. 3(3-0), F

**CSD 713 Child Language II**

Prerequisite: permission. 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. 3(3-0), F,S

**CSD 714 Language Disorders: Rehabilitation**

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. 3(3-0), D



**CSD 715 Infants and Toddlers: Communication Assessment and Treatment**

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. 2(2-0), Su

**CSD 716 Craniofacial Anomalies**

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. 3(3-0), F

**CSD 718 Fluency Disorders**

Prerequisite: permission. Theoretical, clinical, and experimental approaches to the study and treatment of fluency disorders. 2(2-0), F,Su

**CSD 720 Voice Disorders**

Prerequisite: permission. 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. 2(2-0), F,Su

**CSD 724 Aphasia**

Prerequisite: permission. Emphasis on language impairment as a result of brain dysfunction. A theoretical and clinical analysis of the neurolinguistic basis for describing, diagnosing, remediating, and/or providing means for alternative communication for individuals who suffer from aphasia. 3(3-0), F,S

**CSD 725 Motor Speech Disorders**

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. 3(3-0), F

**CSD 726 Diagnostics: Speech and Language Assessment**

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. 3(2-2), D

**CSD 728 Advanced Study of Phonological (Sound System) Disorders in Children**

Prerequisite: permission. Discussion of processes involved in phonological production and how breakdowns in these processes, including hearing loss or deafness, lead to specific problems. 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. 3(3-0), F

**CSD 729 Cognitively-Based Communication Disorders**

Prerequisite: permission. Exploration of the pathophysiology, nature, appraisal, prevention, and management of a variety of neurogenic communication disorders, excluding the aphasias, that affect human cognition. These disorders include right hemisphere syndrome, and traumatic brain injury, in both children and adults, and the dementias. 3(3-0), S

**CSD 732 Speech and Language Assessment and Treatment for Special Populations**

Prerequisite: permission. Information on the speech and language disabilities associated with children with special needs. Target populations will include children with cognitive disabilities, dual sensory disabilities, autism spectrum disorders, behavioral disabilities and/or physical disabilities, and children who are deaf and hard of hearing. Communication development and prevention, assessment, and intervention for each of these populations will be addressed. 3(3-0), D

**CSD 733 Introduction to Augmentative and Alternative Communication**

Prerequisite: permission. 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. 2(2-0), S,Su

**CSD 741 Dysphagia**

Prerequisite: permission. Comprehensive study of normal and disordered swallowing. Special emphasis will be placed on the evaluation and treatment of disordered swallowing processes. 3(3-0), F

**CSD 742 Speech-Language Services in Medical Settings**

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. 2(2-0), Su

**CSD 758 Early Intervention Assessment: Deaf and Hard of Hearing I**

Prerequisite: permission. 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 of formal and informal assessment. 2(2-0), Su

**CSD 759 Early Intervention: Deaf and Hard of Hearing II**

Prerequisite: permission. Methods and techniques for working with families who have infants, toddlers and/or young children who are deaf or hard of hearing from birth to the beginning elementary school years in both natural and educational environments. Emphasis on methods and procedures for intervention, interpretation of assessment data and prescriptive instruction. 2(2-0), Su

**CSD 760 Language Development: Deaf and Hard of Hearing I**

Prerequisite: permission. 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. 3(3-0), F

**CSD 761 Language Development: Deaf and Hard of Hearing II**

Prerequisite: permission. Methods, strategies, and techniques of language development that may be applied in assessing and instructing students with hearing losses. 3(3-0), S

**CSD 762 Speech Development: Deaf and Hard of Hearing I**

Prerequisite: permission. Theories of speech development as they apply to persons who are deaf or hard of hearing. Phonetics including transcription. Anatomy and physiology of the speech mechanisms. Techniques for analyzing speech will be stressed. Two semester sequence, CSD 763 to follow. 3(3-0), F

**CSD 763 Speech Development: Deaf and Hard of Hearing II**

Prerequisite: CSD 762 and permission. Application of information learned in CSD 762. Utilizing a collaborative model for the development of speech/spoken language is emphasized by maximizing the use of residual hearing and cochlear implant technology across settings. 3(3-0), S

**CSD 764 Instructional Strategies and Assessment: Deaf and Hard of Hearing**

Prerequisite: permission. Formal and informal assessment, the concept of curriculum, instructional placement and programming for students who are deaf or hard of hearing from the upper elementary through the secondary school levels, including career education. Development of instructional strategies with an emphasis on individualized instruction. 3(3-0), S

**CSD 765 Reading: Deaf and Hard of Hearing**

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. 3(3-0), S

**CSD 766 Counseling: Deaf and Hard of Hearing**

Prerequisite: permission. 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. 3(3-0), Su

**CSD 767 Amplification Systems in the Educational Setting**

Prerequisite: permission. 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. 3(3-0), F

**CSD 782 Acoustic Phonetics**

Prerequisite: permission. Investigation of the acoustic characteristics of normal and pathological speech and voice production. 3(2-2), D

**CSD 783 Physiological Phonetics**

Prerequisite: permission. Analyses of the physiological features underlying voice, speech and language processes; theories of encoding, and encoding control mechanisms. 3(2-2), D

**CSD 784 Non-Thesis Project**

Prerequisite: permission. In-depth study in an area of communication sciences and disorders, culminating in a presentation of an extensive scholarly paper. Syllabi with specific expectations will be developed for each semester. SLP Emphasis: Students register for 1 credit hour per semester for a minimum of 3 semesters; may be repeated. DHH Emphasis: Students register for 3 credit hour in the first semester of enrollment and then 1 credit hour in the subsequent semester for a minimum total of 4 credit hours, may be repeated. 1-3, F,S,Su

**CSD 788 Professional Issues I: Education Settings**

Prerequisite: permission. 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. 3(3-0), F

**CSD 789 Professional Issues**

Prerequisite: permission. This functionally-oriented course is designed to complement students' concurrent clinical externships in educational and 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 applications to a variety of speech-language pathology settings; professional organizations; and recognition of potential external influences that may impact treatment objectives and length of intervention. 3(3-0), S

**CSD 790 Workshop in Communication Disorders**

Prerequisite: permission. 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. 1-6, D

**CSD 791 Professional Issues in Speech-Language Pathology**

Prerequisite: permission. Functionally-oriented course designed to complement students' concurrent clinical externships in educational and 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 practice settings; and recognition of potential external influences that may

impact treatment objectives and length of intervention. 3(3-0), S

**CSD 792 Independent Study**

Prerequisite: permission. Study may be a reading project or a practical application of theories. May be repeated to a maximum of 4 hours. 1-3, D

**CSD 794 Orientation to Clinic Speech Pathology**

Prerequisite: permission. 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. 1(1-0), F,S,Su

**CSD 795 Advanced Clinical Practice**

Prerequisite: permission. 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. Supplemental course fee. 1-6, F,S,Su

**CSD 796 Supervised Teaching**

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. 8, D

**CSD 797 Speech-Language Pathology Externship**

Prerequisite: permission. Professionally supervised practice in speech-language 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. 1-4, F,S,Su

**CSD 799 Masters Thesis**

Prerequisite: permission. In-depth research culminating in a presentation and defense of the thesis. Syllabi with specific expectations will be developed for each semester. SLP Emphasis: Students register for 2 credit hours per semester for a minimum of 3 semesters; may be repeated. DHH Emphasis: Students register for 3 credit hours per semester for a minimum of 2 semesters; may be repeated. Students must be registered for at least one credit hour until the thesis has been approved. 1-6, F,S,Su

**CSD 800 Research Methods in Audiology**

Prerequisite: permission. This course will outline the research process in audiology beginning from proposing a research question to drawing and disseminating conclusions. Special emphasis will be place on conducting clinical research and evaluating published research findings in audiology. 3(3-0), S

**CSD 807 Auditory System: Physiology/Neurophysiology**

Prerequisite: permission. 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. 3(3-0), D

**CSD 834 Diagnostic Audiology I**

Prerequisite: permission. 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. 3(3-0), F

**CSD 835 Diagnostic Audiology II**

Prerequisite: permission. In the first part of the course, 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. In the second part of the course, research methodology will be applied to demonstrate efficacy in clinical service delivery in all areas of audiologic practice. Outcome measures for various diagnostic test will be discussed. 3(3-0), F

**CSD 840 Speech Pathology for the Audiologist**

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. 3(3-0), D

**CSD 842 Vestibular Assessment and Rehabilitation**

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. 4(4-0), S

**CSD 844 Electrophysiology**

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. 4(4-0), S

**CSD 846 Instrumentation and Calibration**

Prerequisite: permission. 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. 3(2-2), D

**CSD 848 Cochlear Implants and Other Assistive Listening Devices**

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. 3(2-2), D

**CSD 849 Basic Audiometry**

Prerequisite: permission. 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. 3(3-0), F

**CSD 850 Pediatric Audiology**

Prerequisite: permission. 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. 3(3-0), F

**CSD 852 Advanced Hearing Science**

Prerequisite: permission. Acoustics and physical measures involving the properties of sound as well as psychoacoustics and sound perception. 3(3-0), F

**CSD 866 Counseling in Audiology**

Prerequisite: permission. 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. 3(3-0), Su

**CSD 868 Amplification Systems I**

Prerequisite: 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. 3(2-2), S

**CSD 870 Clinical Audiology II**

Prerequisite: permission. Theory and practice of electrophysiological testing for the auditory and vestibular systems. Relevant calibration and instrumentation issues. 4(3-2), S

**CSD 871 Amplification Systems II**

Prerequisite: permission. Coverage of recent developments in remediation of communication disorders related to hearing loss in adults and children. 3(3-0), F

**CSD 873 Educational Audiology**

Prerequisite: permission. 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. 3(3-0), D

**CSD 874 Clinical Audiology III**

Prerequisite: permission. Discussion of recent advances in audiology and hearing science research which have potential clinical application. 3(3-0), D

**CSD 875 Medical Audiology**

Prerequisite: permission. Detailed analysis of the etiology and assessment of common pathologies of the auditory system. Medical intervention and audiologic test battery interpretation discussed. 3(3-0), Su

**CSD 876 Hearing Conservation and Calibration**

Prerequisite: permission of instructor. This course will prepare the audiologist to meet industrial needs for sound measurement and hearing conservation. Government standards will be reviewed and applied to industrial settings that fall under OSHA guidelines for hearing conservation. This will include the anatomical and physiological effects of noise on humans; federal standards and damage-risk criteria, the susceptibility and predisposing factors related to industrial noise as well as conducting and reporting a noise survey with a hearing conservation plan. The course will also cover calibration of audiometers and the use of ANSI standards. 3(2-2), D

**CSD 878 Professional Issues and Practice Management**

Prerequisite: permission. Investigation into the current professional issues and ethics in the field of audiology, as well as legal aspects of audiology practice management. Emphasis is placed on private and clinical practice. Laws, ethics, current issues, regulations, policies, management practices, and record maintenance will also be covered. 4(4-0), D

**CSD 880 Grand Rounds in Audiology**

Prerequisite: permission. Describes in-depth aspects of audiological evaluation, diagnosis and management of routine and complex cases. The course will review cases in which behavioral, electrophysiologic, central, and vestibular testing are necessary to allow differential diagnosis. Each case study will involve the progression of the disorder and audiological/medical manifestations that occur during this period. Discussion involving strategies for (re)habilitation, remediation and management of each auditory disorder will be examined. The latter may include amplification, central auditory processing, counseling and tinnitus management.

Case presentations will be obtained from audiology, otology, and neurology journals, text and personal cases. In addition, with respect to aural (re)habilitation, presentations will be made on current trends in amplification management regarding manufacturers' products and their applicability to specific cases. 3(3-0), F,S

**CSD 884 Doctoral Project**

Prerequisite: permission. In-depth study in an area of Audiology, culminating in a presentation of an extensive scholarly paper. Must be repeated for a minimum of 6 credit hours. 1-6, F,S,Su

**CSD 895 Advanced Clinical Practice**

Prerequisite: permission. 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. Supplemental course fee. 1-6, F,S,Su

**CSD 921 Sign Language I**

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 921. Students will be required to complete a project in an area related to their professional course of study. 3(3-0), F

**CSD 922 Sign Language II**

Prerequisite: CSD 921 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 322. Students cannot receive credit for both CSD 322 and CSD 922. Students will be required to complete a project in an area related to their professional course of study. 3(3-0), S

**CSD 930 Introduction to American Sign Language**

Prerequisite: permission. 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. May be taught concurrently with CSD 330. Students cannot receive credit for both CSD 330 and CSD 930. Students in this course will be required to complete additional assignments compared to those students in CSD 330. 3(3-0), F

**CSD 945 Central Auditory Processing Disorders**

Prerequisite: permission. 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. 3(3-0), F

**CSD 946 Genetics and Hearing Loss**

Prerequisite: permission. Provides basic understanding of genetic terminology, cell biology (mitosis and meiosis), DNA structure and function, introduction to genetic aspects of hearing loss, mode of inheritance, pedigree chart, syndromic and nonsyndromic hearing loss, molecular aspects to nonsyndromic hearing loss, epidemiology of hearing loss, and genetic screening and diagnosis. Also, issues related to genetic testing, impact on families, bioethics and cultural issues in deaf community, and genetic counseling will be discussed. Course will also cover the current research about human genome and its relation to diagnosis and treatment of hearing loss. Several case studies and hands-on activities will be presented to incorporate course materials and class discussion. 1(1-0), F

**CSD 972 Advanced Auditory Re/Habilitation**

Prerequisite: permission. Detailed investigation into clinical assessment, treatment techniques, and evaluation of auditory re/habilitation. Emphasis on auditory re/habilitation 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. Theories and research into language development in individuals with hearing and those with losses of hearing are explored with implications intervention. Problems and issues related to language development are presented. 3(2-2), D

**CSD 996 Audiology Externship**

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. 1-9, F,S,Su

**CSD 999 Doctoral Thesis**

Prerequisite: permission. In-depth research in an area of Audiology, culminating in a presentation and defense of the thesis. Must be repeated for a minimum of 6 credit hours. 1-6, F,S,Su

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## Department of Health, Physical Education, and Recreation

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Email: [HealthPEandRecreation@missouristate.edu](mailto:HealthPEandRecreation@missouristate.edu)  
Website: <http://www.missouristate.edu/hper>  
Department Head: Professor Sarah G. McCallister, Ed.D.

### Faculty (as of July 15, 2011)

**Professors:** Thomas H. Burnett, Ph.D.; Barbara A. Bushman, Ph.D.; Steven F. Illum, Ph.D.; Gerald L. Masterson, Ph.D.; David Oatman, Ed.D.; Rhonda R. Ridinger, Ph.D.; Daniel Wilson, Ph.D.; Rebecca J. Woodard, Ph.D.

**Associate Professors:** Thomas S. Altena, Ed.D.; John Downing, Ph.D.; Yating Liang, Ph.D.; Janice Nelson, Ed.D.

**Assistant Professors:** Hugh M. Gibson, Ed.D.; Brenda S. Goodwin, M.Ed.; Melinda Novik, Ph.D.; Scott Richmond, Ph.D.; Gayle Runke, M.S.

**Instructors:** Kirsten A. Hatz, M.Ed.; Michael W. Keltner, Ed.S.; Larry W. Mays, Ed.S.

**Recreation, Sport, and Park Administration Program Director:** Professor Keith D. Ernce, Ph.D.; Office: 101 Kings Street Annex, Phone: 836-5411, FAX: 836-4200

**Emeritus Professors:** A. Duane Addleman, Ph.D.; 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.; Tillman Williams, Ph.D.

### Accreditation

Missouri Department of Elementary and Secondary Education (DESE) and National Association for Sport and Physical Education (NAPSE) and National Council for Accreditation of Teacher Education (NCATE) – Physical Education, B.S.Ed., Secondary Education/Physical Education, M.S.Ed., National Recreation and Park Association (NRPA) – Recreation, Sport, and Park Administration, B.S.

### Fine Arts Courses

Fine Arts courses are available. Refer to the Bachelor of Arts degree requirements in the specific [Degrees, Programs and Requirements](#) section of the catalog for a listing of the courses.

### Graduate Programs

The following graduate programs are available:

Health Promotion and Wellness Management (Master of Science); Administrative Studies with an option in Sports Management (Master of Science); and Secondary Education with an emphasis in Physical Education (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

#### University Certificate (graduate)

A graduate level certificate program is available in Sports Management. Refer to the Graduate Catalog for more information.

### General Information

**Military Credit:** Students who successfully completed Basic Training in any of the United States military branches after December 31, 1997, will be exempt from the PED 100 General Education requirement. See the "Transfer Credit Policy-Credit for Military Education" section of catalog for procedures.

**PED 100 Requirement for Students with Physical Impairments:** 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.

**PED 100 Transfer Credit:** 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 requirement upon approval from the Department Head of Health, Physical Education, and Recreation.

**Physical Education/Service Courses:** PED 101-149 are available as electives for students for the purpose of providing a means to maintain and/or improve physical well-being.

**Radiography (RAD) 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.

**Respiratory Therapy (RTH) courses:** are not offered at Missouri State University and are treated as transfer courses.

## Majors

### Exercise and Movement Science (Comprehensive)

Bachelor of Science

**Admission Requirements:** Satisfaction of the following minimum criteria is required for admission to the program:

1. A valid ACT score on file if required by the University for admission purposes
2. A combined (Missouri State and transfer) GPA of 2.50 or above
3. Completion of COM 115 with a grade of "C" or above, or concurrent enrollment in COM 115
4. Completion of at least 30 credit hours

#### Degree Requirements

- A. General Education Requirements - see **General Education Program and Requirements** section of the catalog  
Specific General Education Requirements: BIO 102(4) or 121(4) or BMS 110(4); CHM 105(5) or CHM 160(4) and CHM 161(1); PSY 121(3)
- B. Major Requirements: Note: Students must pass a drug test and a background check to participate in required field experiences in clinical settings, in the workplace, and/or in schools. Note: Student certification in first aid and CPR must be documented and maintained throughout the program. Note: Transfer credit courses must have grade of "C" or better and be from a regionally accredited college or university.
  1. Core Requirements (52-55 hours): BIO 102(4) or 121(4) or BMS 110(4); CHM 105(5) or 160(4) and 161(1); PSY 121(3); PED 250(3) or BMS 307(4); PED 252(3) or BMS 308(4); PED 212(1), 350(3), 360(4), 361(2), 362(4), 465(2), 468(4), 569(4); ATC 222(2); BMS 240(3); PSY 200(3) or SOC 302(3) or MTH 340(3) or QBA 237(3) or AGR 330(3) or PSY 527(3); PED 500(3) or 491(3).
  2. Select one of the following options:
    - a. **Health Studies** (21-22 hours): PED 256(2) or 358(3); PED 257(2), 485(2), 567(3); BMS 335(3); 430(3); PSY 508(3); SWK 330(3)
    - b. **Pre-Professional** (26-31 hours): MTH 138(5) or 181(3) or 261(5); PHY 123(4); CHM 170(3) and 171(1) or CHM 352(3) and 353(2); CHM 200(5) or 342(5); BIO 210(3) or 310(5); BMS 230(3) or BIO 235(4) or PHY 124(4); PSY 304(3)  
Majors selecting this option should meet with an advisor to determine the most appropriate course selection. Those preparing for possible selection into a physician assistant program should take both CHM 170(3), 171(1), and both CHM 352(3) and 353(2). Students preparing for clinical science should take BMS 307(4) and 308(4) for the anatomy and physiology requirement
  3. Majors must pass the ACSM Health Fitness Instructors Exam, or the NSCA Certified Strength and Conditioning Specialist Exam, or score at least at the 70th percentile on a major field achievement exam
  4. A combined (Missouri State and transfer) GPA of 2.50 or above is required for graduation
- C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

### 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 professional competence. Successful participation should result in the student's achieving certification to teach in Missouri public schools.

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:

- A. **Requirements for Eligibility to Enroll in PED 200.** Before a student can enroll in PED 200 the following eligibility requirements must be met:
  1. A valid ACT score on file if required by the University for admission purposes and/or Missouri Department of Elementary and Secondary Education
  2. A combined (Missouri State and transfer) GPA of 2.50 or above
  3. Completed COM 115 with a minimum grade of "C" or concurrent enrollment in COM 115
  4. Complete PED 100
  5. Completed at least 30 semester hours
  6. A highway patrol background check prior to any clinical experience placement (fee required)  
Note: The Missouri Department of Elementary and Secondary Education will require an FBI background check prior to issuing a certificate.



**B. 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. Student application for admission to the PETE Program is complete when the requirements listed below are satisfied.

1. A combined (both Missouri State and Transfer) GPA of 2.50 or above
2. 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. 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.
3. Completed PED 200 with minimum grade of "C"
4. Passed portfolio first checkpoint
5. A satisfactory background check on file
6. 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)

**C. Requirements for Continuance in the PETE Program.** In order to progress through the PETE program a student must:

1. Maintain a combined (Missouri State and transfer) GPA of 2.50 or above
2. Maintain a combined (Missouri State and transfer) GPA of 2.50 or above in the major
3. Pass portfolio checkpoints
4. Complete Physical Education Professional Education courses with a minimum grade of "C"
5. Been admitted to the degree program

**D. Requirements for Assignment to Supervised Teaching\*.**

The criteria used to determine eligibility for Supervised Teaching are outlined below. The student must have:

1. Been admitted to the PETE Program
2. A combined GPA of 2.50 or above for all college level course work completed
3. 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
4. Completed at least 15 hours at Missouri State, with a GPA of 2.50 or above for all work at Missouri State
5. A combined (Missouri State and Transfer) GPA of 2.50 or above in major
6. Passed portfolio second checkpoint
7. Student advisor recommendation
8. Recommended by the Department of Health, Physical Education, and Recreation  
\*Additional fee of \$200 per 8-week placement for supervised teaching outside of service area.

**E. Requirements for Certification Recommendation:** To be recommended for an initial Missouri teaching certification the student must have:

1. Successfully completed Supervised Teaching.
2. Met all Missouri teacher certification requirements which are in effect at time of certification
3. A combined (both Missouri State and transfer) GPA of 2.50 or above
4. Met the criteria established by the Missouri State Board of Education exit evaluation procedures. (Praxis II: Subject Assessments Specialty Area Tests)
5. Completed professional education courses with a GPA (Missouri State and transfer combined) of 2.50 or above and no grade lower than "C".
6. A combined (Missouri State and transfer) GPA of 2.50 or above in the certificate subject area (major)
7. Passed final portfolio requirement.  
Note: The Missouri Department of Elementary & Secondary Education will require in FBI background check prior to issuing a certificate.

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 Requirements - see **General Education Program and Requirements** 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); 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 from: 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 [General Baccalaureate Degree Requirements](#) section of catalog

### Missouri State Teacher Certification

#### 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 or K-12 Physical Education may receive Missouri state certification in Driver Education grades 9-12 by completing the following courses: PED 370(3), 371(3), 372(3), and 373(3). 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 the four courses previously listed.

#### 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); BMS 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.

### 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 and other JR Cert accredited programs, offer a baccalaureate degree in Radiography. This program contains professional training that must be from a clinical school that is accredited by the Joint Review Committee on Education in Radiologic Technology sponsored by the American Medical Association (foreign credentials are not accepted). 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 deadline is February 1 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 Requirements - see [General Education Program and Requirements](#) 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)  
*\*CHM 160 should be selected if the science option is chosen.*
- 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: Note: This option has been temporarily suspended and is not being offered at this time. Contact the department for more information.** 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:** ACC 201(3); MGT 340(3), 341(3); plus two courses from ACC 211(3); MGT 345(3), 367(3), 368(3); QBA 237(3)
    - c. **Science:** Select 14 hours in science courses from Biology, Biomedical Sciences, or Physics with approval of advisor
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Recreation, Sport, and Park Administration (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (74-78 hours) Note: All other coursework (including General Education Program, major(s), minor(s), if applicable), and all General Baccalaureate Degree Requirements, must be completed prior to taking REC 491, Recreation, Sport, and Park Administration Internship.

1. Core Requirements (47-51 hours)

- a. Complete the following courses: REC 152(3), 190(3), 205(3); REC 211(3) or 311(3) or 411(3); REC 330(3), 335(3), 390(3), 410(3), 422(3), 423(3), 490(1), 491(8 or 12)
- b. Complete the following statistics course: REC 328(3)
- c. Complete at least 5 hours of skills classes, with advisor approval, from the areas below with a maximum of 4 hours from any one area:
  1. Arts and Crafts: ART 100(3), 115(3), 212(3), 255(3); CIS 205(3)
  2. Dance and Rhythms: PED 125(1), 240(2), 270(1); MUS 100(2), 103(3), 104(3), 133(1), 135(1), 137(1)
  3. Drama and Theater: ENG 334(3); THE 224(1), 255(2), 506(3)
  4. Outdoor Education Activities: AGS 161(3), 162(1); MIL 101(2), 102(2), 211(2); PED 110(1), 114(1), 260(2); REC 160(1), 451(3)
  5. Sports: PED 112(1), 113(1), 118(1), 127(1), 130(1), 133(1), 135(1), 143(1), 145(1), 147(1), 149(1), 234(2), 264(2), 273(1)

2. Complete 27 hours, with advisor approval, from one of the following emphases:

- a. Health and Wellness Promotions:  
Prepares students for various opportunities in the fitness industry, health-related services, and wellness management and promotion. Select 27 hours from Required Courses: PED 257(2), 350(3), 360(4), 362(4), 569(4); REC 415(3); PED 281(1) or 282(1); BMS 130(3) or BMS 240(3); MKT 150(3) or MKT 350(3)
- b. Parks and Outdoor Recreation:  
Prepares students for careers in parks and outdoor recreation and outdoor education within the public or private sector in adventure recreation, outdoor recreation/education facilities, or government natural resource management agencies. Must take the following 18 required hours: REC 211(3), 302(3), 311(3), 325(3), 411(3), 415(3). Select 3 hours from Outdoor Skills: REC 160(1), 451(3); PED 110(1), 114(1), 135(1). Select 3 hours from Leadership/Education: CFD 163(3), 361(3); COM 205(3), 325(3). Select 3 hours from Environmental Integration: AGN 143(3); BIO 373(3); GLG 171(4), 350(3); GRY 108(3), 300(3), 301(3), 351(3).
- c. Recreation Management:  
Prepares students for careers in administering recreation services and events in the Armed Forces, municipal parks and recreation departments, campus recreation, sporting goods retail, facility management, residential camps, resort recreation, travel, tourism and hospitality industry, meeting planning, and not-for-profit organizations: at-risk youth organizations, Boys and Girls Clubs, church recreation, Scouting, and YMCA. Select 15 hours from Required Courses: REC 406(3), 415(3); BUS 135(3); MGT 286(3); MGT 340(3) or PSY 305(3). Select 12 hours from electives: REC 160(1), 302(3), 305(1), 320(3), 325(3), 451(3); MGT 410(3); MKT 350(3), 355(3), 485(3); PLS 351(3).
- d. Sport Administration:  
Prepares students for careers in leadership opportunities in administering athletic programs, athletic teams, competitive sport camps and clinics, facilities and leagues; managing various sport entities, including Olympic training sites, municipal league programs, youth sport agencies, tournament management, sport administration and marketing, special event planning, retail sports industries, and coaching at the college or above level. Complete 16 hours from Required Courses: PED 386(2), 485(2); REC 406(3), 415(3); BUS 135(3); MGT 286(3). Select 11 hours from electives: PED 218(2), 234(2); REC 325(3), 405(2); BUS 307(2); MGT 340(3), 410(3).
- e. Therapeutic Recreation:  
Note: This emphasis has been temporarily suspended and is not being offered at this time. Contact the department for more information.  
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 24 hours from: (Required NCTRC certification standards) REC 325(3), REC 400(3), REC 401(3), REC 420(3); CFD 155(3); PED 250(3) or BMS 307(4); PED 252(3) or BMS 308(4); PSY 304(3). Select 3 hours from electives: BMS 195(1); CRM 210(3), 330(3); CSD 321(3); GER 302(1), 350(3); LLT 102;(2) PED 350(3), 466(3), 468(4), 545(3); PSY 303(3), 331(3), 441(3), 487(3); REC 415(3); SOC 341(3); SPE 310(3); SWK 330(3)

Admission Requirements for the Therapeutic Recreation option: Programmatic screening policies are a result of health organizations' requirements for placement at clinical internships. Therefore, prospective therapeutic recreation students must initiate and pass a background security check and drug screening to be officially admitted to the therapeutic recreation option. Depending on the agency, a second check may be required just prior to internship placement. Students who do not pass any of the screenings may not be able to complete the program or practice professionally. This is the financial responsibility of the student. Application materials are available from the Recreation, Sport, and Park Management Office in the Kings Street Annex, room 100.

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 the American Red Cross First Aid course and CPR course and obtain certification (see [www.redcross.org](http://www.redcross.org) for information)
- b. 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. Emergency Medical Technician (EMT) certification

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Recreation, Sport, and Park Administration (Non-Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog)

B. Major Requirements (53-57 hours) Note: All other coursework (including General Education Program, major(s), minor(s), if applicable), and all General Baccalaureate Degree Requirements, must be completed prior to taking REC 491, Recreation, Sport, and Park Administration Internship.

1. Core Requirements (47-51 hours)

- a. Complete the following courses: REC 152(3), 190(3), 205(3); REC 211(3) or 311(3) or 411(3); REC 330(3), 335(3), 390(3), 410(3), 422(3), 423(3), 490(1), 491(8 or 12)
- b. Complete the following statistics courses: REC 328(3)
- c. Complete at least 5 hours of skills classes, with advisor approval, from the areas below with a maximum of 4 hours from any one area:
  1. Arts and Crafts: ART 100(3), 115(3), 212(3), 255(3); CIS 205(3)
  2. Dance and Rhythms: PED 125(1), 240(2), 270(1); MUS 100(2), 103(3), 104(3), 133(1), 135(1), 137(1)
  3. Drama and Theater: ENG 334(3); THE 224(1), 255(2), 506(3)
  4. Outdoor Education Activities: AGS 161(3),162(1); MIL 101(2), 102(2), 211(2); PED 110(1), 114(1), 260(2); REC 160(1), 451(3)
  5. Sports: PED 112(1), 113(1), 118(1), 127(1), 130(1), 133(1), 135(1), 143(1), 145(1), 147(1), 149(1), 234(2), 264(2), 273(1)

2. Complete, with advisor approval, 9 hours from one of the following emphases:

- a. Recreation Management:  
Prepares students for careers in administering recreation services and events in the Armed Forces, municipal parks and recreation departments, campus recreation, sporting goods retail, facility management, residential camps, resort recreation, travel, tourism and hospitality industry, meeting planning, and not-for-profit organizations: at-risk youth organizations, Boys and Girls Clubs, church recreation, Scouting, and YMCA. Complete the following 3 Required Courses: REC 406(3), 415(3); MGT 340(3) or PSY 305(3).
- b. Sport Administration:  
Prepares students for careers in leadership opportunities in administering athletic programs, athletic teams, competitive sport camps and clinics, facilities and leagues; managing various sport entities, including Olympic training sites, municipal league programs, youth sport agencies, tournament management, sport administration and marketing, special event planning, retail sports industries, and coaching at the college or above level. Complete the following 3 Required Courses: REC 325(3), 406(3) 415(3).
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 the American Red Cross First Aid course and CPR course and obtain certification (see [www.redcross.org](http://www.redcross.org) for information)
  - b. 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. Emergency Medical Technician (EMT) certification

C. Minor required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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. This program is intended for those who are seeking career enhancement in the field of Respiratory Therapy.

A. General Education Requirements - see [General Education Program and Requirements](#) 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), 561(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: Note: This option has been temporarily suspended and is not being offered at this time. Contact the department for more information.** 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:** ECO 155(3); MGT 340(3), 341(3); plus two courses from ACC 211(3); MGT 345(3), 367(3), 368(3); QBA 237(3)

c. **Science:** MTH 340(3); plus 11 hours of electives selected with approval of advisor.

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### 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)

### Recreation, Sport, and Park Administration

Bachelor of Arts  
Bachelor of Science

1. Complete the following six courses: REC 152(3), 190(3), 205(3), 390(3), 422(3), 423(3)
2. Complete one of the following courses: REC 211(3), 311(3), 411(3)

## Health Courses

### HLH 195 Introduction to the Health Professions

Designed to familiarize students with a variety of health career opportunities, and to provide guidance in early curriculum planning and alternative career options. Identical with BMS 195. Cannot receive credit for both HLH 195 and BMS 195. 1(0-2) F,S

### HLH 399 Cooperative Education in the Health Sciences

Prerequisite: acceptance into the Cooperative Education Program and permission of Director of Health Arts and 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. 1-6 F,S

### HLH 700 Research Methods in Health, Physical Education and Recreation

Nature of research methodology, experimental design and scientific writing. Opportunity to explore research literature and to conduct research. 3(3-0), F

### HLH 750 Programming Approaches in Wellness/Health Promotion

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. 3(3-0), S

### HLH 752 Health Risk Identification and Management

Procedures and instrumentation utilized in the identification and assessment of risk factors associated with cardiovascular and other major life-style 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. 3(3-0), S

### HLH 760 Health Promotion Planning

A culminating course in the M.S. 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. 3(3-0), S

### HLH 770 Seminar in Health Promotion and Wellness Management

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. 3(3-0), S

### HLH 791 Wellness Internship

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. May be repeated. 1-6, F

## Physical Education Courses

### PED 100 Fitness for Living

General Education Course (Basic Required Courses). 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. Supplemental course fee. 2(1-2) F,S

### PED 101 Beginning Swimming

Designed to teach novice swimmer basic swimming skills. 1(0-2) D

**PED 102 Intermediate Swimming**

Prerequisite: PED 101 or demonstrate swimming skill first day of class; first aid and CPR certification. Review of basic strokes. Instruction in competitive strokes. Basic diving instruction. May be taken twice for credit. 1(0-2) Su

**PED 103 Lifesaving**

Prerequisite: PED 102 or demonstrate swimming skill first day of class, first aid and CPR certification. Development of personal safety skills and techniques of aquatic rescue for lifeguarding; certification in American Red Cross Life Guard Training may be obtained. 1(0-2) D

**PED 104 Water Safety Instruction**

Prerequisite: PED 103 and permission of instructor. Prepares the student for complete American Red Cross Water Safety Instruction Certificate. 1(0-2) S

**PED 105 Alpine Skiing**

Prerequisite: permission of instructor. Fundamental skills of alpine skiing; required Student Union ski trip for the purpose of instruction and practice on snow. 1(0-2) F

**PED 106 Sailing**

Prerequisite: demonstrate swimming skill first day of class. Development of skills and knowledge of sailing. Supplemental course fee. 1(0-2) F,S

**PED 107 Intermediate Sailing**

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. Supplemental course fee. 1(0-2) F,S

**PED 109 Cycling**

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. 1(0-2) D

**PED 110 Backpacking**

Backpacking as a lifetime leisure activity. Emphasis on equipment, safety, techniques, and trip planning. Field trips required. 1(0-2) D

**PED 111 Beginning Badminton**

Fundamentals of grip, stance, footwork and badminton strokes. 1(0-2) F,S

**PED 112 Beginning Handball**

Rules, techniques and strategy of four wall handball. 1(0-2) F,S

**PED 113 Beginning Racquetball**

Fundamental skills, rules, techniques and strategy of racquetball. 1(0-2) F,S

**PED 114 Canoeing**

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. 1(0-2) D

**PED 118 Bowling**

History, fundamental skills, techniques, terminology, rules, strategy and safety skills of bowling. Supplemental course fee. 1(0-2) F,S

**PED 120 Beginning Gymnastics**

Emphasis on skill progressions in tumbling and vaulting with an introduction to apparatus and balance work. Principles of training, conditioning, and spotting included. 1(0-2) F,S

**PED 121 Intermediate to Advanced Gymnastics**

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. 1(0-2) F,S

**PED 122 Fencing**

History, fundamental skills, techniques, terminology, nomenclature, rules, strategy and safety skills of fencing. 1(0-2) F,S

**PED 123 Intermediate Fencing**

Prerequisite: PED 122. Advanced compound offenses and defenses; detailed work on competitive techniques. May be taken twice for credit. 1(0-2) F,S

**PED 124 Techniques and Principles of Hunting and Fishing**

Skills and safety factors of hunting and fishing; Missouri hunting, fishing, and conservation laws and principles upon which these laws are founded. 1(0-2) F,S

**PED 125 Aerobic Dance**

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. 1(0-2) F,S

**PED 126 Folk and Square Dance**

Understanding folk and square dance skills, directional patterns, structure. 1(0-2) F,S

**PED 127 Weight Training**

Scientifically founded isotonic and isometric weight training programs; development of cardiovascular and muscular endurance, strength and flexibility. 1(0-2) F,S

**PED 128 Western Square Dance**

Review of the 50 basics and introduction to the 25 extended basic skills and patterns of Western Square Dance. 1(0-2) D

**PED 130 Adapted Physical Activity**

Prerequisite: physician's approval. Adapted physical activity to meet the needs of students with disabilities and other physical limitations. May be repeated for credit. 1(0-2) F,S

**PED 133 Volleyball**

Basic skills of power volleyball. 1(0-2) D

**PED 135 Selected Activities**

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. Supplemental course fee may be assessed (variable by section). 1(0-2) D

**PED 136 Ballroom Dance**

Ballroom dances: technique, lead and style. 1(0-2) F,S

**PED 138 Archery**

Cultural aspects of archery throughout history; target archery, field archery, bowhunting and bowfishing. 1(0-2) F,S

**PED 143 Beginning Tennis**

Fundamental tennis skills and mechanical principles. Rules, courtesies and etiquette. 1(0-2) F,S

**PED 144 Intermediate Tennis**

Prerequisite: PED 143. Instruction in intermediate and advanced elements of strokes and strategy used in singles and doubles. May be taken twice for credit. 1(0-2) F,S

**PED 145 Beginning Golf**

Choice and use of clubs, form to be used, rules and courtesies of golf. 1(0-2) F,S

**PED 146 Intermediate Golf**

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. 1(0-2) F,S

**PED 147 Beginning Judo**

Fundamental falling (ukemi), holding techniques (Katamewaza), basic mat and free exercises (mat randori), and history of judo. 1(0-2) F,S

**PED 148 Intermediate Judo**

Prerequisite: PED 147 or Brown or Black Belt Ranking. Basic throwing techniques of judo; all mat techniques required for third degree brown belt status (sankyū). May be taken twice for credit. 1(0-2) S

**PED 149 Self Defense**

Prerequisite: PED 147. Introduction to self-defense techniques including combative and defensive stances and position, taisabaki movement, parries, counterattack movement, hold releases, attack techniques, and ground defense. 1(0-2) F,S

**PED 200 Foundations of Education and Physical Education**

Prerequisite: PED 100; COM 115 with a "C" grade or better; and cumulative GPA of 2.50 or better. 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. May not be taken Pass/Not Pass. The C-Base exam must be taken during enrollment in this course. 3(2-2) F,S

**PED 201 Introduction to Biomechanics**

Prerequisite: 30 credit hours. Mechanics of sports; principles of motion related to individual and team sports. Techniques to analyze individual sport skills. 2(2-0) D

**PED 212 Introduction to Exercise Science**

Orientation for students interested in exercise science. Various professional options will be discussed and research methodology in the field will be explored through applied examples. 1(1-0) F,S

**PED 218 Organization and Administration of Intramurals**

Prerequisite: 30 credit hours. Organization and administration of an effective program of intramural activities for secondary and college levels. 2(2-0) D

**PED 234 Sports Officiating**

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. 2(2-1) F,S

**PED 240 Creative Dance and Exploratory Activities for Children**

Creative activities for movement and dance necessary for the physical development of elementary school students. 2(1-2) F,S

**PED 250 Applied Human Anatomy**

Prerequisite: BIO 102 or BIO 121 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. 3(2-2) F,S

**PED 252 Applied Human Physiology**

Prerequisite: CHM 105 or CHM 106 or CHM 160; and 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. 3(2-2) F,S

**PED 253 First Aid**

First aid and civil defense knowledge; procedures in times of emergency, sickness, wounds, shock, poisoning, fractures, unconsciousness, stoppage of breathing. 2(2-0) F,S

**PED 256 Community Health**

School, community, state, national and international health programs; their relationship to the student; major communicable and non-communicable diseases and community health. 2(2-0) F,S

**PED 257 Personal Health**

Health problems; factors that contribute to development and maintenance of health for the individual living in a contemporary, automated society. 2(2-0) F,S

**PED 260 Outdoor Leisure Education**

Introduction to outdoor leisure skills. Selected outdoor education activities, e.g. orienteering, hiking, etc. Field trips required. 2(1-2) F,S

**PED 261 Wrestling Techniques**

Fundamental wrestling skills necessary for demonstration purposes in teaching-coaching situations. Recommended for men only. 1(0-2) F

**PED 264 Team Sports**

Fundamental skills and techniques of basketball, field hockey, soccer/speedball, softball and volleyball; emphasis on demonstration in teaching-coaching situations. 2(0-4) F,S

**PED 270 Recreational and Aerobic Dance Techniques**

Fundamental skills in folk, square, social, and aerobic dance necessary for demonstration purposes in teaching situations. 1(0-2) F,S

**PED 273 Aquatics**

Prerequisite: 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. 1(0-2) F,S

**PED 277 Individual and Dual Sports**

Fundamental skills and techniques of golf, racket sports, track and field, and tumbling/apparatus; emphasis on demonstration in teaching-coaching situations. 2(0-4) F,S

**PED 281 The Athlete's Diet**

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. 1(1-0) F,S

**PED 282 Sports Conditioning**

Instruction on the theory and practical aspects of designing and evaluating training and conditioning programs for competitive athletes. 1(1-0) F,S

**PED 297 Special Topics**

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. 1-2 D

**PED 300 Teaching and Coaching Volleyball**

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. 1(0-2) F,S



**PED 301 Teaching and Coaching Football**

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. 1(0-2) F,S

**PED 302 Teaching and Coaching Basketball**

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. 1(0-2) F,S

**PED 303 Teaching and Coaching Track and Field**

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. 1(0-2) F,S

**PED 304 Teaching and Coaching Baseball**

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. 1(0-2) F,S

**PED 305 Teaching and Coaching Softball**

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. 1(0-2) F,S

**PED 310 Writing II: Philosophical and Historical Issues in Physical Education, Recreation and Sport**

Prerequisite: ENG 110 and PED 200 or REC 152; and 45 credit hours. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

**PED 335 Organization and Administration of Physical Education and Sport**

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. 2(1-2) F,S

**PED 341 Physical Education for Elementary Teachers**

Prerequisite: PED 100. Games, rhythms, material and methods utilized by elementary school classroom teachers to teach physical education. 2(2-0) F,S

**PED 350 Health and Wellness Promotion**

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. 3(3-0) F,S

**PED 358 Health Education Methods**

Methods, materials and resources for preparation, development and implementation of an effective school Health Education program. 3(3-0) F,S

**PED 360 Kinesiology**

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. 4(3-2) F,S

**PED 361 Principles of Motor Learning in Physical Education**

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. 2(2-0) F,S

**PED 362 Exercise Physiology**

Prerequisite: 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. Supplemental course fee. 4(3-2) F,S

**PED 366 Exercise Physiology**

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. 3(3-0) F,S

**PED 370 Introduction to Safety Education**

General safety education in the instruction program of elementary and secondary schools; accident causes and remedial action. 3(3-0) D

**PED 371 Driver Task Analysis**

Prerequisite: valid operator's license. 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. 3(2-2) D

**PED 372 Developing Vehicle Operation Skills and Competencies**



Prerequisite: PED 371. Acquaints the prospective driver education teacher with problems of automotive and traffic safety. 3(3-0) D

**PED 373 Developing Classroom Knowledge**

Prerequisite: PED 371 and PED 372. Course provides students the opportunity to do an action research project with regard to knowledge and skills necessary to provide quality classroom instruction. successfully manage the on-street activities and provide for appropriate student evaluation. This course should be viewed as the culmination of the Driver Education endorsement. 3(3-0) D

**PED 386 Social Basis of Physical Activity**

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. 2(2-0) F,S

**PED 392 Coaching Practicum**

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. 1(0-2) or 2(0-4) F,S

**PED 400 Movement to Enhance Cognition: Elementary Physical Education for Elementary Teachers**

Prerequisite: concurrent enrollment in ELE 500 for 4 hours. Games, rhythms, materials, and methods utilized by elementary school classroom teachers to teach physical education and integrate kinesthetic movement into classroom instruction. 1(1-0) F,S,Su

**PED 402 Women In Sport**

Prerequisite: 60 credit hours. 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. 3(3-0) S

**PED 405 Gender and Sport**

An examination of sport as a major institutional locus for the historical and contemporary construction of gender relations. 1(1-0) D

**PED 411 Teaching of Secondary Physical Education**

Prerequisite: PED 264 and PED 270 and PED 273 and PED 277 and PED 360; and at least "C" grades in PED 431 and PED 440; and admitted to teacher education program; and cumulative GPA of 2.50 or better; and passed all portions of C-BASE Exam. 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 and participation in clinical/field experiences in area secondary schools is required. A grade of "C" or better is required in this course in order to take PED 493 or PED 496. May not be taken Pass/Not Pass. 3(2-2) F,S

**PED 430 History and Philosophy of Physical Education**

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. 2(2-0) F,S

**PED 431 Teaching K-4 Physical Education**

Prerequisite: PED 240 and PED 264 and PED 270; and admitted to Teacher Education Program; and cumulative GPA or 2.50 or better; and passed all portions of C-BASE Exam. 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. A grade of "C" or better is required in this course in order to take PED 493 or PED 496. May not be taken Pass/Not Pass. 3(2-2) F,S

**PED 440 Middle School (5-9) Physical Education**

Prerequisite: PED 240 and PED 264 and PED 270 and PED 360; and admitted to Teacher Education Program; and cumulative GPA of 2.50 or better; and passed all portions of C-BASE Exam. 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. A grade of "C" or better is required in this course in order to take PED 493 or PED 496. May not be taken Pass/Not Pass. 3(2-2) F,S

**PED 445 Teaching of Middle and Secondary Physical Education**

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 PED 493 or 496. May not be taken Pass/Not Pass. 4(2-4) F,S

**PED 465 Exercise Prescription: Strength and Conditioning**

Physiology and biomechanics of strength training and conditioning. Topics include: testing and evaluation of athletics, resistance training techniques, training program design, and organization and administration of a strength training facility. This course is designed to prepare students to apply the skills needed to be a leader in strength and conditioning. 2(1-2) F,S

**PED 466 Physical Education for the Mentally Handicapped**

Prerequisite: permission of instructor. Identification and program development of physical activities for the severely retarded, trainable retarded, and educable retarded. Laboratory is off campus. 3(2-2) S

**PED 468 Adapted Physical Education**

Prerequisite: PED 360 and PED 362; and cumulative GPA of 2.50 or better. 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. A grade of "C" or better is required in this course in order to take PED 493 or PED 496. 4(2-4) F,S

**PED 485 Psychology of Sport and Physical Activity.**

Prerequisite: PSY 121. Inquiry into the psychological implications of sport and physical activity participation in relation to motivation and behavior of the participant. 2(2-0) F,S

**PED 490 Sports Practicum**

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. 1-4 F,S

**PED 491 Field Experience**

Supervised experience or internship in a cooperative program with business, government, community, clinical, or related establishments in exercise science, health, or health promotion. Credit will be based on the length and scope of the field experience/internship. May be repeated for credit but no more than 12 hours will be credited toward a degree. 3 or 6 or 12 F,S,Su

**PED 493 Supervised Teaching (Secondary Physical Education)**

Prerequisite: completion of all method courses in physical education; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; completion of portfolio checkpoints 1 and 2; and cumulative and major GPA of 2.50 or better; and approval for supervised teaching. Student observes then teaches physical education 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**PED 496 Supervised Teaching (Elementary Physical Education)**

Prerequisite: concurrent enrollment in PED 493. Student observes, then teaches physical education 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. The course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**PED 498 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**PED 499 Special Problems**

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. 1-5 F,S

**PED 500 Seminar in Physical Education**

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. May be taught concurrently with PED 600. Cannot receive credit for both PED 600 and PED 500. 1-3 D

**PED 545 Perceptual and Motor Development**

Prerequisite: PSY 360 or PSY 380 or PSY 385 or PSY 390 or CFD 160; and 90 hours. 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. May be taught concurrently with PED 645. Cannot receive credit for both PED 645 and PED 545. 3(2-2) F,S

**PED 567 Physical and Leisure Activities for the Aging Adult**

Prerequisite: PED 250 or BMS 307; and PED 252 or BMS 308. 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. May be taught concurrently with PED 667. Cannot receive credit for both PED 667 and PED 567. 3(3-0) F,S

**PED 569 Health Appraisal and Exercise Testing Techniques**

Prerequisite: PED 362. Introduction to appropriate health appraisal and exercise tests for the purpose of exercise programming and prescription. Supplemental course fee. May be taught concurrently with PED 669. Cannot receive credit for both PED 669 and PED 569. 4(3-2) F,S

**PED 575 Measurement and Evaluation Applied to Physical Education**

Prerequisite: 90 credit hours; and admitted to Teacher Education Program, and 2.50 GPA. 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. 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. May be taught concurrently with PED 675. Cannot receive credit for both PED 675 and PED 575. 3(3-0) F,S

**PED 600 Seminar in Physical Education**

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. May be taught concurrently with PED 500. Cannot receive credit for both PED 500 and PED 600. 1-3, D

**PED 645 Perceptual and Motor Development**

Recommended Prerequisite: PSY 360. 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. May be taught concurrently with PED 545. Cannot receive credit for both PED 545 and PED 645. 3(2-2), F,S

**PED 667 Physical and Leisure Activities for the Aging Adult**

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. May be taught concurrently with PED 567. Cannot receive credit for both PED 567 and PED 667. 3(3-0) F,S

**PED 669 Health Appraisal and Exercise Testing Techniques**

Introduction to appropriate health appraisal and exercise tests for the purpose of exercise programming and prescription. Supplemental course fee. May be taught concurrently with PED 569. Cannot receive credit for both PED 569 and PED 669. 4(3-2) F,S

**PED 675 Measurement and Evaluation Applied to Physical Education**

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. May be taught concurrently with PED 575. Cannot receive credit for both PED 575 and PED 675. 3(3-0), F,S

**PED 705 Applied Statistics in Health, Physical Education, and Recreation**

Prerequisite: HLH 700 or equivalent or permission of instructor. Applications of descriptive and inferential statistics to research problems in Health, Physical Education, and Recreation. 3(3-0), F,S

**PED 733 Current Problems in Sports Administration**

Identification, analysis, and evaluation of current problems, research and trends in sports administration. 3(3-0), F

**PED 735 Administration of School Physical Education and Athletic Programs**

Financial and legal aspects, personnel management, program development, public relations, and evaluation as they apply to physical education and athletics. 3(3-0), D

**PED 737 Curriculum Designs in Physical Education**

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. 3(3-0), F,S

**PED 739 Principles of Sports Management**

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. 3(3-0), F

**PED 755 Fitness as Preventive Medicine**

Recommended Prerequisite: PED 362 or equivalent. Development and implementation of scientifically-based fitness programs as vehicles of preventative medicine. 3(3-0), D

**PED 759 Contemporary Health Problems**

In-depth consideration of relevant pertinent health issues, trends, controversy, and current research in Health Education. 3(3-0), D

**PED 760 Applied Biomechanics of Human Movement**

Recommended 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. 3(2-2), D

**PED 762 Applied Exercise Physiology**

Recommended 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. 3(2-2), D

**PED 780 Legal Aspects in Sports, Physical Education, and Wellness Programs**

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. 3(3-0), F

**PED 781 Contemporary Issues in Physical Education**

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. 3(3-0), F,S

**PED 795 Research Project**

Prerequisite: HLH 700 or equivalent; a statistics course; and permission of graduate coordinator. Original research supervised by the departmental staff. Designed to enable students through firsthand experience to understand the various parts of research papers, methods of gathering data, appropriate statistical tests, interpretation of findings and implications for further study. 3(3-0), D

**PED 797 Graduate Seminar**

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. 1-3, D

**PED 798 Field Experience in Sports Management**

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. 6, D

**PED 799 Thesis**

Prerequisite: HLH 700 or equivalent; a statistics course; and permission of graduate coordinator. Independent research and study connected with the preparation of a thesis. May be repeated but no more than 6 hours may be counted toward degree. 1-6, D

## Radiography Courses

**RAD 110 Introduction to Radiologic Technology**

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). 1(1-0) D

**RAD 120 Radiographic Anatomy**

An introduction to human anatomy with a detailed study of the structure of the human skeletal system with special emphasis on radiographic landmarks. 2(2-0) D

**RAD 130 Radiographic Procedures I**

Fundamentals of radiographic procedures and terminology. This course includes all routine positions and a discussion of the resulting radiographic projections. Includes image analysis, lab demonstrations, practice, and lab evaluations. 2(1-3) D

**RAD 140 Medical Terminology**

A structural analysis of word roots, suffixes, and prefixes for terms pertinent to the medical field with an emphasis on radiologic technology. 1(1-0) D

**RAD 150 Radiologic Science I**

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. 3(2-2) D

**RAD 160 Radiographic Procedures II**

Advanced procedures and positioning techniques with emphasis on trauma and special views of bony anatomy. Includes image analysis, lab demonstrations, practice, and lab evaluations. 2(1-2) D

**RAD 170 Image Processing**

A study of the equipment, materials, and procedures used to produce radiographic images to include quality control procedures and image analysis. 1(1-0) D

**RAD 180 Radiographic Imaging I**

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. 3(2-2) D

**RAD 190 Practicum I**

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. 7(1-12) D

**RAD 310 Radiologic Physiology**

Normal structure and function of human systems with emphasis on related radiographic examinations. 3(3-0) D

**RAD 315 Radiologic Pathology**

The study of human disease to include disease etiology, diagnosis, clinical interpretation and treatment. 2(2-0) D

**RAD 320 Radiographic Procedures III**

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. 2(1-2) D

**RAD 330 Radiographic Procedures IV**

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. 1(1-0) D

**RAD 340 Contrast Agents**

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. 1(1-0) D

**RAD 350 Radiographic Science II**

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. 2(1-2) D

**RAD 360 Radiographic Imaging II**

A study of specialized imaging technologies to include fluoroscopy, digital imaging, tomography, and other modalities. 2(1-2) D

**RAD 370 Radiographic Procedures V**

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. 1(1-0) D

**RAD 380 Practicum II**

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. 8(1-14) D

## Recreation, Sport, and Park Administration Courses

**REC 152 Introduction to Recreation, Sport, and Park Administration**

Implications of leisure values in society and the role that organizations, agencies, institutions and municipalities have played in the recreation, sport, and park industries. Theories, concepts, and philosophies of leisure and recreation in society. A survey of the career opportunities in the recreation, sport and park venues. 3(3-0) F,S

**REC 160 Outdoor Initiatives**

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. 1(1-0) F,S

**REC 161 Basic Low Impact Camping**

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. Field trips required. 1(1-0) F,S

**REC 190 Applied Social Recreation**

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. Supplemental course fee. 3(2-2) F,S

**REC 205 Concepts in Therapeutic Recreation**

Prerequisite: REC 152 or concurrent enrollment. Orientation to the broad applications of clinical and community based therapeutic recreation approaches to programs and services for individuals with disabilities. Specific considerations given to mental retardation, developmental disabilities, mental illness, physical disabilities, aging, juvenile and adult corrections. 3(3-0) F,S

**REC 210 Camp Counseling**

Overview of the camping movement in America, the role of the counselor, and the personal development of the camper. 2(2-0) F,S

**REC 211 Principles of Outdoor Recreation**

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. 3(3-0) F,S

**REC 235 Adaptive Recreation Techniques Equipment**

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. 1(1-0) F,S

**REC 301 The Role of Animals in Recreation**

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. 1(1-0) F,S

**REC 302 Ecotourism**

Students will gain an appreciation for ecotourism as a recreation experience. The course will examine our local ecotourism

resources and compare them to the international trends and issues related to ecotourism, models of tourism and recreation planning, and ecotourism, especially focusing on the issue of sustainability. Field trips required. 3(3-0) F,S

#### **REC 303 Recreational Tourism Frontiers**

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. 2(2-0) D

#### **REC 304 Community Recreation and Tourism**

This course focuses on inventory, survey, assessment, and promotion of products/services of community recreation resources for visitors and residents. Students will learn how tourism is an important component of community recreation programming. 3(3-0) F

#### **REC 305 Meeting Planning**

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 students in recreation, communications, marketing, and other fields. Though the course makes reference to the hotel industry, it is taught from the perspective of the meeting planner. 1(1-0) F,S

#### **REC 311 Outdoor/Adventure Education**

The scope, methods, and importance of using the outdoors as a teaching tool for both individual and group education settings. Field trip(s) required. 3(3-0) F,S

#### **REC 315 Introduction to Private/Commercial Recreation**

Overview of the spectrum of private planning, delivery and assessment of goods and services in the private and commercial sector. 3(3-0) F,S

#### **REC 320 Fundamentals of Tourism**

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, Sport, and Park Administration faculty. Identical with GRY 310. Cannot receive credit for both REC 320 and GRY 310. 3(3-0) S

#### **REC 325 Leisure Education**

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. 3(3-0) F,S

#### **REC 328 Statistical Applications in Recreation, Sport and Park Administration**

Prerequisite: 30 hours and completion of General Education mathematics requirement. Introduction to statistical applications most commonly used in recreation, sport, and park administration services research; analysis, interpretation and presentation of data related to recreation, sport, and park administration 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, MTH 340, PSY 200, QBA 237, SOC 302. 3(3-0) F,S

#### **REC 330 Leisure Research Applications**

Prerequisite: REC 152 and REC 328. 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 recreation, sport, and park services. 3(3-0) F,S

#### **REC 335 Recreation, Sport, and Park Administration Practicum**

Prerequisite: REC 152 and REC 190 and REC 205; and permission of practicum instructor. A practical experience which the student can relate to classroom theory. Students are assigned to recreation, sport, and park administration agencies for exposure to structure, programming, and philosophy of the cooperating agency. Practicum experience must be a minimum of 100 hours. Students should report to the Recreation, Sport, and Park Administration 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 recreation, sport, and park administration agency. 3(0-6) F,S,Su

#### **REC 390 Recreation Programming**

Prerequisite: REC 152 and REC 190 and REC 205 and 60 credit hours. Students will examine various program areas and various approaches to program determination; development process for program planning, and gain experience in brochure and survey development. 3(3-0) F,S

#### **REC 400 Therapeutic Recreation Foundations**

Prerequisite: REC 205; and either 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. 3(3-0) F

#### **REC 401 Therapeutic Recreation Assessment Evaluation, Intervention Techniques and Modalities**

Prerequisite: REC 400. Focuses on use of assessment, evaluation, and facilitation technique in the delivery of treatment program modalities commonly found in therapeutic recreation practice. 3(3-0) S

#### **REC 405 Camp Administration**



A study of the techniques and principles involved in the administration of modern camps. 3(3-0) F,S

**REC 406 Promoting Leisure Services**

Prerequisite: REC 152. To provide the Recreation, Sport, and Park Administration students with an emphasis in Recreation Management or Sport Administration with an overview of low-cost strategies of planning and executing promotion for non-profit, government and profit making leisure services. Emphasis will be made on working with non-profit organizations. 3(3-0) F,S

**REC 410 Recreation Leadership Supervision**

Prerequisite: REC 152 and REC 190 and REC 205 and 60 credit hours. A study of the processes, methods, and characteristics of leadership and supervision in the delivery of leisure services. 3(3-0) F,S

**REC 411 Outdoor Pursuits**

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. Supplemental course fee. 3(2-2) S

**REC 415 Risk Management for Recreation, Sport, and Park Agencies**

Prerequisite: 75 hours. This course is designed to look at the various risk management concepts, laws, and administrative practices that address the legal environment of recreation, sport, and park agencies within the scope of our legal culture. Our Constitution, legal liability related to safe environs, crowd control, transportation, employee rules and regulations, workplace risk, and the general management of risk situations and aspects will be the central core of this course. 3(3-0), F,S

**REC 420 Trends and Issues in Therapeutic Recreation**

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. 3(3-0) F

**REC 422 Recreation Facility and Area Management**

Prerequisite: admission to the Recreation, Sport, and Park Administration program (major or minor); and 90 hours; and REC 390. Elements of locating, planning, developing, maintaining, and financing various recreation facilities and areas management. Study of management principles and responsibilities applicable to leisure settings. 3(3-0) F,S

**REC 423 Administration of Recreation, Sport, and Park Agencies**

Prerequisite: admission to the Recreation, Sport, and Park Administration program (major or minor); and 90 hours; and REC 390. 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. 3(3-0) F,S

**REC 451 Outdoor Leadership**

Prerequisite: permission of 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. May be repeated once. Supplemental course fee. 3(1-4) F,S,Su

**REC 490 Orientation to Internship**

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 must enroll in this course during the preceding Fall semester, and students planning to intern in the Summer or Fall semesters must enroll in this course during the preceding Spring semester. 1(1-0) F,S

**REC 491 Recreation, Sport, and Park Administration Internship**

Prerequisite: complete all other coursework (including General Education Program, major(s), minors(s), if applicable, and all general baccalaureate degree requirements); and cumulative Missouri State GPA of at least 2.20; and 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 Recreation, Sport, and Park Administration internship coordinator during the preceding semester to secure an internship site and clarify internship responsibilities, and (2) complete a notebook during the internship. Credit will be based on the length of the internship period. 8 or 12, F,S,Su

**REC 495 Seminar in Recreation, Sport, and Park Administration**

Prerequisite: permission of instructor. Study of various recreation, sport, and park administration topics from contemporary and/or technical points of view. Students should check the current class schedule to determine the topic. May be repeated, provided the topic is different, to a maximum of 6 hours. 1-3 F,S,Su

**REC 499 Special Problems**

Prerequisite: permission of Recreation, Sport, and Park Administration Program Director. Directed reading or special investigation of a particular problem within the field of recreation, sport, and park administration and research projects under faculty supervision. May be repeated up to a maximum of 5 hours of credit. 1-5 F,S,Su

**Respiratory Therapy Courses**

**RTH 111 Fundamentals of Respiratory Therapy I**

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. 4 D

**RTH 112 Fundamentals of Respiratory Therapy II**

A continuation of fundamentals with major emphasis and topics of aerosols, humidity, equipment maintenance, IPPB therapy and asepsis techniques. 4 D

**RTH 113 Fundamentals of Respiratory Therapy III**

Ventilatory insufficiency and failure, mechanical ventilation, and chest physio-therapy. Skills and techniques are developed in the clinical setting. 4 D

**RTH 311 Pulmonary Functions**

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. 2 D

**RTH 313 Clinical Application of Acid-Base Balance**

Prerequisite: RTH 311. Acid-Base Homeostasis is related to clinical therapeutics. Topics include expired gas analysis, hemodynamics, biomedical instrumentation of biostatistical analysis. 3 D

**RTH 350 Respiratory Therapy Pharmacology**

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. 2 D

**RTH 352 Pathology and Chest Disease**

Physio-pathology of respiratory disease states as they relate to normal structure. 2 D

**RTH 360 Respiratory Therapy Practicum**

Departmental responsibilities including principles and practices of planning, directing and evaluating a respiratory therapy department. 3 D

**RTH 361 Respiratory Physiology**

In-depth study and analysis of ventilation, the response to chemical and gaseous agents and manifestation and diagnosis and treatment of pulmonary disease. 2 D

**RTH 370 Advanced Clinical Techniques**

Prerequisite: permission of instructor. Selected topics in the use of biomedical electronic and health related equipment as applied to Respiratory Therapy. 4 D

**RTH 371 Cardiovascular Physiology**

A course describing detailed anatomy and physiology of the cardiovascular system. Topics included are: neurogenic and histogenic homeostasis, shock, disease processes and diagnostic testing. 3 D

**RTH 380 Special Studies in Respiratory Therapy**

Provides the student with the opportunity for advanced work in a specialty area on an individual basis. 4 D

**RTH 381 Clinical Practicum in Respiratory Care**

Supervised practical application of various respiratory care procedures performed in clinical settings. 3 D

**RTH 382 Clinical Practicum in Respiratory Care**

Prerequisite: RTH 381. Supervised practical application of various respiratory care procedures performed in clinical settings. 3 D

**RTH 383 Clinical Practicum in Respiratory Care**

Prerequisite: RTH 382. Continuation of RTH 382. 3 D



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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services > Department of Nursing

## Department of Nursing

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Email: [Nursing@missouristate.edu](mailto:Nursing@missouristate.edu)  
Website: <http://www.missouristate.edu/nursing>  
Department Head: Professor Kathryn L. Hope, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Kathryn L. Hope, Ph.D.; Rose A. Utley, Ph.D.

**Associate Professor:** Susan Sims-Giddens, Ed.D.

**Assistant Professors:** Susan L. Berg, D.N.P.; Donna S. Gloe, Ed.D.; Caroline A. Helton, M.S., M.N.

**Clinical Assistant Professors:** Maria S. Kenneally, D.N.P.; Debra L. Savinske, M.N.; Patricia L. Webb, D.N.P.

**Clinical Instructors:** Jan Atwell, M.S.N.; Carolyn F. Graves, M.S.N.

**Emeritus Instructor:** Elizabeth M. Fahey, M.S.N.

### Accreditation

Commission on Collegiate Nursing Education (CCNE) – all Nursing programs. The generic 4-year nursing program leading to a Bachelor of Science in Nursing meets full approval of the Missouri State Board of Nursing.

### Graduate Programs

The following graduate programs are available:

Master of Science in Nursing.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Science in Nursing Degree

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 approved, a maximum of 12 hours of graduate level courses may count toward both the undergraduate and the graduate degree (Mixed Credit).

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. 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. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period of the semester.

#### University Certificates (graduate)

Graduate level certificate programs are available in Post-Master's Family Nurse Practitioner, and in Post-Master's Nurse Educator. See the Graduate Catalog for more information.

### General Information

**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.

**Nursing Electives for Non-BSN Majors:** NUR 199, 326, 327, 420, 472, 490, 492, 501, 502, 503, 510, 515, and 565 may be taken by students in other departments and as continuing education courses by non-degree seeking students.

### Majors

#### Nursing (Comprehensive) (Generic, 4-year Program)

Bachelor of Science in Nursing

The Department of Nursing offers a generic, 4-year 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. Student should refer to the *BSN Student Handbook* for additional information on the policies and procedures in the Department of Nursing

- A. General Education Requirements - see **General Education Program and Requirements** section of catalog  
Specific General Education Requirements: 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 130(3) or 240(3) preferred; BMS 307(4) or PED 250(3); BMS 308(4) or PED 252(3)
  2. Upper Division Nursing: NUR 302(4), 303(3), 304(5), 311(2), 312(6), 322(4), 323(4), 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), HCM 303(3), HCM 504(3), NUR 420(3), 490(3), NUR 499(1-6), NUR 501(3), NUR 502(3), NUR 503(3), NUR 515(3), NUR 530(3)
  4. Select one course in statistics from the following: SOC 302(3), PSY 200(3), MTH 340(3), QBA 237(3), AGR 330(3), REC 328(3) or PSY 527(3)
- C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree 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, 2009).

#### **Admission Policies**

1. Admission to Missouri State University.
2. Completion of application to the Generic BSN program to the Department of Nursing, including a current resume.
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 (GEP 101/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. Complete nursing prerequisites with a grade of "C-" or higher.
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, Varicella, complete Hepatitis B series, and a PPD (or evidence of appropriate medical follow-up for PPD positive individuals)).
10. Current American Heart Association BLS for Healthcare Providers certification. No online courses are accepted.
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.
14. Admission is based on completion of all admission requirements; on cumulative GPA of all attempted college course work, with some additional preference given to current Missouri State University students and to individuals with previous healthcare experience, leadership experience, and/or community service. Additional consideration will be awarded for the grade received on the first attempt of chemistry, anatomy, and the university mathematics requirement.

#### **Additional Requirements of the Program**

1. 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. Expected to provide their own transportation to clinical sites.
3. 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-RN preparation, and laboratory and clinical supplies and equipment.
4. Required to initiate and pay for any security checks and drug screenings required for clinical agencies, for application to take the NCLEX-RN, and when applying for licensure with a State Board of Nursing.
5. Required to 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 disqualification 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. Graduation from the Generic BSN program does not guarantee a student's eligibility to become licensed as a professional nurse. Eligibility requirements include passing the NCLEX-RN exam and meeting RN licensure requirements for the state in which licensure is sought by the individual. The Missouri State Board of Nursing reserves the right to deny, revoke, or suspend a license. Please refer to: <http://www.moga.mo.gov/statutes/c300-399/3350000066.htm>

### 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, Progression 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) (Completion Program for Registered Nurses)

#### Bachelor of Science in Nursing

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 the program is by application and selection as stated in the admission policies. Students should refer to the *BSN Student Handbook* for additional information on the policies and procedures in the Department of Nursing.

- A. General Education Requirements - see **General Education Program and Requirements** section of catalog  
Specific General Education Requirements: SOC 150(3) and PSY 121(3)
- B. Major Requirements
  1. Upper Division Nursing Requirements: NUR 306(3), 341(4), 342(4), 442(6), 472(3), 482(6), 484(2), 515(3), 565(3)
  2. Select one course in statistics from the following: SOC 302(3), PSY 200(3), MTH 340(3), QBA 237(3), AGR 330(3), REC 328(3), PSY 527(3) or others by permission.
- C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree 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, Progression and Graduation Committee will make recommendations on each application.)
2. Current licensure in good standing as a registered nurse in the State of Missouri or in the state where they practice.
3. Provide evidence of current health insurance.
4. Provide evidence of current malpractice liability insurance.
5. 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.
6. Current American Heart Association BLS for Healthcare Providers certification. No online courses are accepted.
7. Submit evidence of current immunization (MMR, Tetanus, Varicella, complete Hepatitis B series, and a PPD (or evidence of appropriate medical follow-up for PPD positive individuals)).
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.
3. Students are expected to purchase community uniforms and initial equipment before beginning nursing courses. A list of the items and their prices can be obtained from the Department of Nursing.
4. Students are expected to provide their own transportation to clinical sites.
5. Students are required to pay course fees for each semester they are enrolled in clinical nursing courses.

### **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 immunizations, annual PPD or appropriate medical follow-up for PPD positive individuals, and health insurance requirements.
  9. Maintain current American Heart Association BLS for Healthcare Providers certification. No online courses are accepted.
- 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.

## **Minors**

### **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)
- 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.

## **Health Care Management Courses**

### **HCM 301 Health Care Organization**

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. 3(3-0) D

### **HCM 303 Health Care Legal Issues**

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 insurance, licensure of health professionals, and ethical problems/questions in health care. 3(3-0) D

### **HCM 504 Health Care Economics**

Recommended 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. Identical with ECO 504. May not receive credit for both HCM 504 and ECO 504. May be taught concurrently with HCM 604. Cannot receive credit for both HCM 604 and HCM 504. 3(3-0) F

### **HCM 604 Health Care Economics**

Recommended 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. Identical with ECO 604. May not receive credit for both HCM 604 and ECO 604. May be taught concurrently with HCM 504. Cannot receive credit for both HCM 504 and HCM 604. 3(3-0), F

## Nursing Courses

### **NUR 199 Health Topics**

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. 1-3 F,S

### **NUR 300 Nursing Transition**

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. 2(1-2) F

### **NUR 302 Concepts in Nursing**

Prerequisite: admission to the 4-year Generic Nursing program. Introduction to nursing process, theory, and concepts relevant to professional nursing. 4(4-0) Su

### **NUR 303 Art and Science of Nursing I**

Prerequisite: admission to the 4-year Generic Nursing program. Introduction to basic skills and technology used in professional nursing. Includes clinical experience of not less than 48 hours. Supplemental course fee. 3(2-3) Su

### **NUR 304 Art and Science of Nursing II**

Prerequisite: NUR 302 and NUR 303. Introduction to complex skills, technology, and nursing care of the adult client in professional nursing. Includes clinical experience of not less than 96 hours. Supplemental course fee. 5(3-6) F

### **NUR 306 Professional Emergence**

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. 3(3-0) F,S

### **NUR 311 Introduction to Family Health Nursing**

A study of family across the life span as the basis of health care in nursing. Focus on how the family impacts health care of individuals and how illness of individuals impact family. Provides an introduction to theoretical foundations of nursing of family, family assessment, planning nursing interventions for family and the use of health promotion and disease prevention measures for families. 2(2-0) F

### **NUR 312 Nursing: The Adult Client**

Prerequisite: NUR 304 and NUR 311 and NUR 342 and NUR 360 and NUR 565. Professional nursing care of adult clients experiencing acute and chronic illness. Includes clinical experience of not less than 96 hours. Supplemental course fee. 6(4-6) F,S

### **NUR 322 Nursing: The Childbearing Family**

Prerequisite: NUR 312 and NUR 331 and NUR 416; and NUR 472 or concurrent enrollment. Professional nursing care of childbearing families in diverse settings. Includes clinical experience of not less than 48 hours. Supplemental course fee. 4(3-3) F

### **NUR 323 Nursing: The Pediatric Client and Family**

Prerequisite: NUR 312 and NUR 331 and NUR 416; and NUR 472 or concurrent enrollment. Professional nursing care of pediatric clients and their families in diverse settings. Includes clinical experience of not less than 48 hours. Supplemental course fee. 4(3-3) F

### **NUR 326 Current Issues in Children's Health and Safety**

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. 1(1-0) D

### **NUR 327 Issues in Women's Health**

Variable course content 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. 1(1-0) D

### **NUR 331 Nursing: The Mental Health Client**

Prerequisite: NUR 304 and NUR 311 and NUR 342 and NUR 360 and NUR 565. Professional nursing care of mental health clients in diverse settings. Includes clinical experience of not less than 48 hours. Supplemental course fee. 4(3-3) F,S

### **NUR 341 Nursing: Individuals and Families**

Prerequisite: RN; and admission to the nursing program; and NUR 306 or concurrent enrollment. Application of nursing theory and nursing process in the health care of individuals and families. 4(4-0) F

### **NUR 342 Nursing: Health Assessment**

Prerequisite: NUR 302 and NUR 303 for generic four-year BSN students only. Acquisition and utilization of skills in health history interviewing and physical assessment of clients throughout the life span. Supplemental course fee. 4(3-2) F,S

### **NUR 360 Introduction to Pharmacology**

Prerequisite: NUR 302 and NUR 303 and instructor permission. Introduction to basic pharmacology, pharmacokinetics and pharmacodynamics of major drug classifications. 3(3-0) F,S

### **NUR 416 Nursing: The Older Adult Client**

Prerequisite: NUR 312 or concurrent enrollment. Professional nursing care of older adults in diverse settings. 2(2-0) F,S

### **NUR 420 Integrative Healthcare Concepts**

Exploration of integrative health care concepts and interventions used to promote health and well being of individuals, families and groups from diverse backgrounds. Provides an introduction to theories and research which underlie patient education, family assessment and intervention, and selected noninvasive therapies. NUR 420 and NUR 620 may be taught concurrently. Cannot receive credit for both NUR 420 and NUR 620. 3(3-0) D

**NUR 442 Nursing: Community Health**

Prerequisite: NUR 312 and NUR 331 and NUR 416; and NUR 472 or concurrent enrollment for generic 4-year BSN students. NUR 341 and NUR 342 and NUR 306 and NUR 565 and NUR 472 or concurrent enrollment for BSN completion students. 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. Supplemental course fee. 6(4-6) F,S

**NUR 472 Writing II: Nursing Research and Scholarly Writing**

Prerequisite: ENG 110 or satisfactory score on the writing diagnostic exam; statistics (AGR 330, MTH 340, PSY 200, PSY 527, PSY 611, QBA 237, REC 328, SOC 302 or equivalent) or concurrent enrollment; and 45 hours. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

**NUR 475 Nursing Internship**

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. 3-6 F,S,Su

**NUR 478 Nursing: Senior Seminar**

Prerequisite: NUR 322 and NUR 442 and NUR 472; and NUR 482 or concurrent enrollment; and departmental permission. Exploration of issues and policies affecting nursing as a profession. Also includes preparation for licensure. 2(2-0) F,S

**NUR 482 Nursing: Leadership and Management**

Prerequisite: NUR 332 and NUR 442 and NUR 472 for generic 4-year BSN students. NUR 442; and NUR 472 or departmental permission for BSN completion students. Development of the nurse as a leader and manager in diverse settings. Includes clinical experience of not less than 96 hours. Supplemental course fee. 6(4-6) F,S

**NUR 484 RN-BSN Capstone**

Prerequisite: NUR 482 or concurrent enrollment. This capstone course emphasizes reflection, integration, and synthesis of concepts from previous courses. Students will demonstrate their knowledge of course and program outcomes, integrate cultural competence, ethical leadership, and identify factors that impact healthcare access for vulnerable populations. 2(2-0) F,Su

**NUR 490 Emergency Care**

Prerequisite: 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. 3(3-0) F,S

**NUR 492 Basic EKG Interpretation**

Prerequisite: 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. 1(1-0) Su

**NUR 499 Special Topics in Nursing**

Prerequisite: permission. Independent study in area of special interest. May be taken up to maximum of 6 hours. 1-6 F,S

**NUR 501 Gerontological Health Care**

Prerequisite: junior standing. 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. May be taught concurrently with NUR 631. Cannot receive credit for both NUR 631 and NUR 501. 3(3-0) F,S

**NUR 502 Rural Health**

Prerequisite: junior standing. 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. Identical with SWK 502. Cannot receive credit for both NUR 502 and SWK 502. May be taught concurrently with NUR 632. Cannot receive credit for both NUR 632 and NUR 502. 3(3-0) F,S

**NUR 503 Transcultural Healthcare**

Prerequisite: permission of instructor. Exploration of health beliefs, values, and practices of other cultures. This is a short-term study away course and counts as an elective toward the Bachelor of Science in Nursing degree. May be taught concurrently with NUR 633. Cannot receive credit for both NUR 633 and NUR 503. 3(3-0) S

**NUR 515 Healthcare Informatics**

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. Cannot receive credit for both NUR 635 and NUR 515. 3(3-0) S,Su

**NUR 530 Forensic Nursing: A Multidisciplinary Approach**

Prerequisite: permission of instructor. This course will explore the professional, ethical, and legal aspects of forensic nursing including the multidisciplinary approach to the care of the sexual assault victim and other victims of violent crime, the collection of forensic evidence and documentation of findings, and testifying in court. This course meets the educational component to take the certification exam as a Sexual Assault Nurse Examiner (SANE) nurse. 3(3-0) S

**NUR 565 Advanced Human Pathophysiology**

Prerequisite: On-campus section: permission of instructor required for pre-nursing majors; NUR 302 and NUR 303 required for BSN majors. Online sections are open only to RN's. Exploration of pathophysiology with focus on health care problems relevant to nursing. Cannot receive credit for both NUR 640 and NUR 565. 3(3-0) F,S

**NUR 596 Independent Study in Nursing**

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. May be taught concurrently with NUR 695. Cannot receive credit for both NUR 695 and NUR 596. 1-6 F,S,Su

**NUR 597 Special Topics in Nursing**

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. May be taught concurrently with NUR 696. Cannot receive credit for both NUR 696 and NUR 597. 1-3(1-3) F,S,Su

**NUR 631 Gerontological Health Care**

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. May be taught concurrently with NUR 501. Cannot receive credit for both NUR 501 and NUR 631. 3(3-0), F,S

**NUR 632 Rural Health**

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. Identical with SWK 602. Cannot receive credit for both NUR 632 and SWK 602. May be taught concurrently with NUR 502. Cannot receive credit for both NUR 502 and NUS 632. 3(3-0), F,S

**NUR 633 Transcultural Healthcare**

Prerequisite: permission of instructor. Exploration of health beliefs, values, and practices of other cultures. This is a short-term study away course. May be taught concurrently with NUR 503. Cannot receive credit for both NUR 503 and NUR 633. 3(3-0), S

**NUR 635 Healthcare Informatics**

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. Cannot receive credit for both NUR 515 and NUR 635. 3(3-0), F,S,Su

**NUR 640 Advanced Human Pathophysiology**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. Exploration of pathophysiology with focus on health care problems relevant to nursing. Cannot receive credit for both NUR 565 and NUR 640. 3(3-0), F,S

**NUR 695 Independent Study in Nursing**

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. May be taught concurrently with NUR 596. Cannot receive credit for both NUR 596 and NUR 695. 1-6, F,S,Su

**NUR 696 Special Topics in Nursing**

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. May be taught concurrently with NUR 597. Cannot receive credit for both NUR 597 and NUR 696. 1-3(1-3), F,S,Su

**NUR 700 Epidemiology**

Prerequisite: admission to the MSN program. 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. Identical with PBH 720. Cannot receive credit for both NUR 700 and PBH 720. 3(3-0), F,S

**NUR 701 Nursing Science**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor 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. 3(3-0), F

**NUR 703 Population Health: A Local to Global Perspective**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. Fosters development of advanced knowledge of health concepts from a local, state, national, and global perspective. The phenomena of cultural competence, health disparities, and vulnerable/underserved populations will be explored. The course is a pre/corequisite for NUR 704, a cultural immersion course required for family nurse practitioner students. 3(3-0), F

**NUR 704 Population Health Practicum**

Prerequisite: admission to the Family Nurse Practitioner specialization. This course is a clinical component of NUR 703. The clinical experience will include 48 hours of immersion into a vulnerable, undeserved or culturally diverse population. 1(0-3), F,S,Su

**NUR 707 Advanced Health Assessment and Health Promotion Throughout the Lifespan**

Prerequisite: admission to the MSN program. Exploration of advanced health assessment and health promotion strategies for individuals, families, and communities. Includes consideration of diverse populations, cultural competence for providers, exploration of the meanings of health and illness, the use of complementary and alternative therapies, and the impact of spirituality. 2(2-0), Su

**NUR 711 Advanced Roles and Leadership in Nursing**

Prerequisite: admission to the MSN program. Examination of advanced nursing roles with emphasis on role theory, leadership, and advanced competencies. 2(2-0), Su

**NUR 715 Primary Care of the Adult**

Prerequisite: admission to the Family Nurse Practitioner specialization. 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. Supplemental course fee. 6(4-6), S

**NUR 725 Primary Care of Women**

Prerequisite: admission to the Family Nurse Practitioner specialization. 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. Supplemental course fee. 4(2-6), F

**NUR 728 Primary Care of Children and Adolescents**

Prerequisite: admission to the Family Nurse Practitioner specialization. Content and practicum in primary care of children and adolescents. Includes clinical experiences of not less than 96 hours. Supplemental course fee. 4(2-6), Su

**NUR 734 Advanced Physical Assessment and Clinical Reasoning**

Prerequisite: admission to the Family Nurse Practitioner specialization. Advanced critical thinking, communication and diagnostic skills needed to obtain comprehensive and focused history and physical exams, analyze assessment data, generate differential diagnoses, evaluate and utilize screening and diagnostic modalities appropriately. An evidence-based practice framework will be utilized. Supplemental course fee. 5(3-6), F

**NUR 761 Advanced Pharmacotherapeutics**

Prerequisite: admission to the Family Nurse Practitioner specialization. An in-depth analysis of pharmacotherapeutics and clinical pharmacotherapeutics for nurses in advanced practice including regulatory consideration in drug management. Identical to PAS 781. Cannot receive credit for both NUR 761 and PAS 781. 3(3-0), F

**NUR 765 Applications of Advanced Pathophysiology**

Prerequisite: admission to the MSN program. Clinical application of advanced pathophysiology for advanced nursing roles. 2(1-2), S

**NUR 772 Advanced Research Methods in Nursing**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor permission. 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. 3(3-0), S

**NUR 780 Teaching/Learning for Health Care Educators**

Prerequisite: admission to the Nurse Educator specialization. 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. 3(3-0), F,S

**NUR 781 Nursing Education Practicum**

Prerequisite: admission to the Nurse Educator specialization. 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. 2(0-6), F,S

**NUR 782 Curriculum Design and Program Development**

Prerequisite: admission to the Nurse Educator specialization. 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. 3(3-0), F,S

**NUR 783 Nursing Education Practicum II**

Prerequisite: admission to the Nurse Educator specialization. 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. 2(0-6), F,S

**NUR 784 Technology in Health Care Education**



Prerequisite: permission. This course explores various technology-based health education resources, such as blogs, wikis, YouTube/SchoolTube, Podcasts, Webinars, and social networking tools utilized to support the teaching and learning process. Strategies to assess learners, to develop learner evaluation plans, and to measure learning outcomes will be discussed. 2(2-0) F

**NUR 786 Issues in Healthcare Education**

Prerequisite: admission to the Nurse Educator specialization. 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. 2(2-0), D

**NUR 788 Health Policies and Issues**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization or instructor 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. 3(3-0), F,S

**NUR 790 Family Nurse Practitioner Advanced Practicum**

Prerequisite: admission to the Family Nurse Practitioner specialization. Development of the role of a family nurse practitioner in a supervised setting. Included clinical experiences of not less than 240 hours. Supplemental course fee. 5(0-15), F,S,Su

**NUR 797 Non-thesis Project**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization. Active participation in the on-going research and/or nursing evaluation activities of nursing faculty. Culminates in a presentation of an extensive scholarly paper. Must be repeated for a minimum of 3 credit hours. 1-3, F,S,Su

**NUR 798 Research**

Prerequisite: permission of research advisor. Application of the research process in the supervised study of a selected problem. May be repeated for a maximum of 6 hours. 1-6, F,S

**NUR 799 Thesis**

Prerequisite: admission to the Family Nurse Practitioner or Nurse Educator specialization. Demonstration of the capacity for research and independent thought culminating in a thesis. Must be repeated for a minimum of 6 credit hours. 1-6, F,S,Su

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2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services > Department of Physical Therapy

## Department of Physical Therapy

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Email: [PhysicalTherapy@missouristate.edu](mailto:PhysicalTherapy@missouristate.edu)  
Website: <http://www.missouristate.edu/physicaltherapy/>  
Department Head: Professor Akinniran Oladehin, PT, Ph.D.

### Faculty (as of July 15, 2011)

**Associate Professors:** Sean C. Newton, PT, Ph.D.; Barbara S. Robinson, PT, D.P.T.

**Assistant Professors:** Patricia A. Cahoj, PT, M.S., D.P.T., GCS; James M. Hackney, PT, Ph.D.; Elizabeth M. Williamson, PT, Ph.D.

**Director of Admissions:** Associate Professor Scott W. Wallentine, PT, D.P.T

**Director of Clinical Education:** Assistant Professor Jeanne L. Cook, PT, Ph.D.

**Director of Physical Therapy Clinic:** Michael V. Halliday, PT, M.S.P.T.

### Accreditation

Commission on Accreditation in Physical Therapy Education (CAPTE) – Physical Therapy, D.P.T.

### Graduate Programs

The following graduate programs are available:

Doctor of Physical Therapy degree.

Refer to the [Graduate Catalog](#) for more information.

### Physical Therapy Courses

#### PTE 707 Medical Human Anatomy

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. Identical with BMS 707. Cannot receive credit for both PTE 707 and BMS 707. 6(3-10), F

#### PTE 710 Introduction to Physical Therapy

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. 3(2-4), F

#### PTE 711 Professional Issues I

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. 2(1-3), F

#### PTE 712 Biomechanics and Kinesiology

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. 5(4-3), F

### **PTE 713 Human Development and the Life Cycle**

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. 3(3-0), D

### **PTE 714 Imaging Analysis in Physical Therapy Practice**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. 2(2-1), S

### **PTE 720 Neuroanatomy - Neuroscience**

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. 4(3-3), S

### **PTE 721 Professional Issues II**

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. 2(0-4), S

### **PTE 722 Physical Agent and Mechanical Modalities**

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. 2(2-2), S

### **PTE 723 Patient Management: Musculoskeletal I**

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course emphasizes the management of patients with 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. 4(2-6), S

### **PTE 730 Motor Control/Motor Learning**

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. 3(2-2), Su

### **PTE 731 Pathophysiology/Differential Diagnosis I**

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. 3(2-2), Su

### **PTE 732 Electrotherapeutic Modalities and Clinical Electrophysiology**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. 2(2-5), Su

### **PTE 733 Patient Management: Musculoskeletal II**

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. 4(3-6), Su

### **PTE 737 Clinical Internship I**

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 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. 4, Su

### **PTE 740 Research Methods and Design**

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. 2(1-2), S

**PTE 741 Pathophysiology/Differential Diagnosis II**

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 effects 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. 3(2-3), F

**PTE 743 Patient Management: Neurological I**

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. 4(2-6), F

**PTE 744 Patient Management: Cardiovascular and Pulmonary Problems**

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. 3(2-3), S

**PTE 747 Clinical Internship II**

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. 6, F

**PTE 750 Research and Outcome Analysis**

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. 2(2-0), F

**PTE 753 Patient Management: Neurological II**

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. 4(3-3), S

**PTE 754 Patient Management: Special Considerations Across the Life Span**

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. 2(1-3), D

**PTE 756 Patient Management: Integumentary**

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course 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. 1(1-0), F

**PTE 757 Clinical Internship III**

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. 6, S

**PTE 760 Management of Research Projects**

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. 2(1-3), Su

**PTE 761 Contemporary Issues in Professional Practice**

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. 2(1-3), Su

**PTE 762 Medical Pharmacology**

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. 2(1-3), F

**PTE 764 Patient Management: Exercise Physiology, Nutrition, and Wellness**

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. 3(2-3), F

**PTE 765 The Physical Therapist as Educator**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. 1(1-0), Su

**PTE 767 Health Care Systems and the Physical Therapist**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. 1(1-0), Su

**PTE 785 Histology and Tissue Biology**

Prerequisite: enrollment in the program and successful completion of all prior course work therein, and permission of instructor. Course emphasizes the structure and basic function of all the major tissues and cell types in the human body. Includes normal cell and tissue morphology and the adaptations that occur as a result of various stimuli both normal and abnormal. This is a variable content course. May be repeated for a maximum of 6 hours. 1-2, D

**PTE 800 Advanced Topics in Geriatrics**

Prerequisite: enrollment in the program and successful completion of all prior course work therein. In this course 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. 1-2, D

**PTE 801 Vestibular Rehabilitation**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. 1-2, D

**PTE 802 Advanced Regional Anatomy**

Prerequisite: Enrollment in the DPT program and permission of instructor. This is a variable content course offering in-depth coverage of basic, applied, and clinical aspects of gross anatomy of one or more of the following regions: head and neck, upper extremity, trunk, and 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) to learn. Course may be repeated up to a maximum of 9 hours. 1-2, D

**PTE 803 Advanced Topics in Musculoskeletal Physical Therapy**

Prerequisite: Enrollment in the DPT program and permission of instructor. This is a variable content course emphasizing the management of patients with musculoskeletal dysfunction focusing on research, differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the evidence-based process of patient management, i.e., examination, assessment, diagnosis, prognosis treatment, analysis of functional outcomes, and re-assessment. Students will focus on management of musculoskeletal dysfunction relation to one or more of the following regions: the upper extremity, the pelvis and lower extremity, or the spine and sacroiliac joint. Course may be repeated up to a maximum of 9 hours. 1-2, D

**PTE 804 Advanced Topics in Pediatrics**

Prerequisite: enrollment in the program and permission of instructor. This is a variable content course designed to allow students to develop their cognitive, psychomotor or affective skills at an advanced level in the area of physical therapy for children. The course may involve readings, projects, and direct clinical experiences individually contracted between the instructor and the student. Course may be repeated up to a maximum of 9 hours. 1-2, D

**PTE 871 Physical Therapy Management and Administration**

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. 3(2-2), F

**PTE 872 Orthotics, Prosthetics, and Assistive Technologies**

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. 3(2-3), S

**PTE 873 Patient Management: Advanced Differential Diagnosis**

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. 4(2-6), F

**PTE 877 Clinical Internship IV**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. Graded Pass/Not Pass only. 8, F

**PTE 880 Research and Outcome Analysis: Completion and Presentations**

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. 2(0-4), F

**PTE 883 Patient Management: Critical Integration and Analysis II**

Prerequisite: enrollment in the program and successful completion of all prior course work therein. This course follows PTE 873 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. 1(1-0), S

**PTE 887 Clinical Internship V**

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 Clinical Internship V. 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. 8, S

**PTE 888 Clinical Internship VI**

Prerequisite: enrollment in the program and successful completion of all prior course work 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. 6, S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services > Department of Physician Assistant Studies

## Department of Physician Assistant Studies

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Website: <http://www.missouristate.edu/pas/>  
Department Head: Associate Professor Steven T. Dodge, M.D.

### Faculty (as of July 15, 2011)

**Assistant Professor:** Robert Canales, M.S., P.A.-C.; Tracy L. Cleveland, M.S., P.A.-C.;

**Instructors:** Nancy M. Dion, M.S., P.A.-C.

### Accreditation

Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)

### Graduate Programs

The following graduate programs are available:

Physician Assistant Studies (Master of Science).

Refer to the [Graduate Catalog](#) for more information.

### Physician Assistant Studies Courses

#### PAS 717 Medical Human Anatomy and Radiology

Prerequisite: admission to the MS in Physician Assistant Studies 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. Identical with BMS 717. Cannot receive credit for both PAS 717 and BMS 717. Supplemental course fee. 6(3-11), S

#### PAS 753 Molecular Pathophysiology

Prerequisite: admission to the MS in Physician Assistant Studies. Introduction to the genetic, immunologic, and microbiologic mechanisms of health and disease. 1(0-2) S

#### PAS 765 Clinical Assessment I

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 3(2-2) Su

#### PAS 766 Clinical Assessment II

Prerequisite: admission to the MS in Physician Assistant Studies. 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). 3(2-2) Su

#### PAS 769 Behavioral Medicine

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 1(0-2) S

#### PAS 770 Professional Issues Seminar

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 1(0-2) Su

#### PAS 775 Principles of Clinical Problem Solving

Prerequisite: admission to the MS in Physician Assistant Studies 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. 1(0-2) S



**PAS 776 Clinical Problem Solving Seminar**

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 1(0-2) F

**PAS 777 Introduction to Research and Clinical Epidemiology**

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 3(3-0) F

**PAS 780 Pharmacotherapeutics I**

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 1(1-0) Su

**PAS 781 Advanced Pharmacotherapeutics**

Prerequisite: completion of PAS 780, 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. Identical with NUR 761. Cannot receive credit for both PAS 781 and NUR 761. 3(3-0) F

**PAS 783 Clinical Practicum I**

Prerequisite: admission to the MS in Physician Assistant Studies 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. Supplemental course fee. 1(0-4) Su

**PAS 784 Clinical Practicum II**

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 1(0-4) F

**PAS 785 Clinical Medicine I**

Prerequisite: admission to the MS in Physician Assistant Studies. 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. 4(4-2) Su

**PAS 786 Clinical Medicine II**

Prerequisite: admission to the MS in Physician Assistant Studies. 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. Supplemental course fee. 6(6-2) F

**PAS 787 Laboratory Medicine and Clinical Procedures**

Prerequisite: admission to the MS in Physician Assistant Studies. "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. Supplemental course fee. 1(0-3) F

**PAS 788 EKG and ACLS**

Prerequisite: admission to the MS in Physician Assistant Studies. A study of the principles and practical applications of electrocardiography for the physician assistant, followed by an Advanced Cardiac Life Support course. Lecture, lab, interactive CD, and "mock code" skills training. 2(0-4) F

**PAS 790 Clinical Preceptorship**

Prerequisite: admission to the MS in Physician Assistant Studies and promotion from the didactic year. Consists of a six-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 core clinical area, including family practice/primary care, general surgery, psychiatry/behavioral medicine, internal medicine, emergency medicine, women's health, and pediatrics. May be repeated. 4-5(0-40) F,S,Su

**PAS 797 Clinical Practice Issues Seminar**

Prerequisite: clinical year standing in the MS in Physician Assistant Studies. 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. Supplemental course fee. 1(0-2) F,S,Su

**PAS 798 Research Project**

Prerequisite: clinical year standing in the MS in Physician Assistant Studies. In-depth study of a clinical problem of interest that culminates in a scholarly paper and formal presentation. Supplemental course fee. 2 F



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## Department of Psychology

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Department Head: Professor Timothy K. Daugherty, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Timothy A. Bender, Ph.D.; Russell N. Carney, Ph.D.; Donald L. Fischer, Ph.D.; Bradley J. Fisher, Ph.D.; Robert G. Jones, Ph.D.; Thomas D. Kane, Ph.D.; Chantal Levesque-Bristol, Ph.D.; David J. Lutz, Ph.D.; Arden T. Miller, Ph.D.; Carol F. Shoptaugh, Ph.D.

**Associate Professors:** William Paul Deal, Ph.D.; Matthew N. Fanetti Ph.D., Carol A. Gosselink, Ph.D.; Danae L. Hudson, Ph.D.; Donn L. Kaiser, Ph.D.; D. Wayne Mitchell, Ph.D.; Mary C. Newman, Ph.D.; John S. Rosenkoetter, Ph.D.; Ann D. Rost, Ph.D.; Michelle E. Visio, Ph.D.; Brooke L. Whisenhunt, Ph.D.

**Assistant Professors:** Erin Buchanan, Ph.D.; Steven C. Capps, Ph.D.; Melissa Duncan-Fallone, Ph.D.; Carly A. Yadon, Ph.D.; Adena D. Young, Ph.D.

**Senior Instructor:** Tanya L. Whipple, Psy.D.

**Instructor:** Tracie D. Burt, M.S.; Rachel N. Fondren-Happel, M.S.; Jerry L. Gray, Ph.D.; Bogdan N. Kostic, Ph.D.

**Emeritus Professors:** Chris T. Bersted, Ph.D.; Sylvia T. Buse, Ph.D.; Paul J. Companik, Ph.D.; James O. Davis, Ph.D.; David Dixon, Ph.D.; Harry L. Hom, Jr., Ph.D.; Susan L. Hom, M.S.; F. LaMorris Hyde, Ph.D.; Elissa M. Lewis, Ph.D.; Jeff Maloney, Ph.D.; Frederick R. Maxwell, Jr., Ph.D.; Michael T. Nietzel, Ph.D.; Jeanne A. Phelps, Ph.D.; B. Richard Quinn, Ed.D.; David W. Stockburger, Ph.D.; Barbara S. Turpin, Ph.D.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Psychology with options in Clinical, Experimental, and Industrial/Organizational (Master of Science).

Refer to the [Graduate Catalog](#) for more information.

#### University Certificate (graduate)

A graduate level certificate program is available in Forensic Child Psychology. Refer to the Graduate Catalog for more information

### Majors

#### Gerontology (Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) 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 100(4) or 105(4) or 110(4)

B. Major Requirements

1. Prerequisite for required courses for Gerontology major: none
2. Core courses for Gerontology major:
  - a. Substantive Aging Courses: GER 310/SOC 375(3); GER 380(3); GER 470/SWK470(3); PSY 365(3), 451(3)
  - b. Research Methods Course: PSY 203(3) or PSY 302(3) or SOC 301(3) or another course approved by advisor
  - c. Communication Skills Course: COM 332(3) or 390(3) or 405(3) or another course approved by advisor
  - d. Statistics Course: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3) or another course approved by advisor
  - e. Health Sciences Course: BMS 130(3) or 240(3) or 310(3) or COM 507(3) or another course focusing on issues of physical health and wellness selected by the student with advisor approval
3. Other required courses: GER 598(3-12), Supervised Practicum in Gerontology and GER 599(3), Seminar in

### Gerontology

4. Electives to complete comprehensive major: 6 hours of GER or PSY designated courses related to aging issues 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 [General Baccalaureate Degree Requirements](#) section of catalog

### Psychology (Non-Comprehensive)

#### Bachelor of Arts

**Admission Requirement:** Complete PSY 150(1)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (34 hours)
  1. Required Core (13 hours): PSY 121(3), 150(1), 200(3), 302(3), 411(3)
  2. Foundation Coursework (12 hours) Choose at least one course from each of the following areas:
    - a. Developmental: PSY 331(3), 350(3), 365(3), 441(3)
    - b. Learning and Cognition: PSY 306(3), 422(3), 502(3)
    - c. Biological Processes: PSY 336(3), 506(3), 521(3), 525(3)
    - d. Applied: PSY 304(3), 359(3), 512(3), 529(3)
  3. Additional 9 hours of psychology electives, at least 6 hours of which must be numbered 300 or above.
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Psychology (Non-Comprehensive)

#### Bachelor of Science

**Admission Requirement:** Complete PSY 150(1)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (34 hours)
  1. Required Core (13 hours): PSY 121(3), 150(1), 200(3), 302(3), 411(3)
  2. Foundation Coursework (12 hours) Choose at least one course from each of the following areas:
    - a. Developmental: PSY 331(3), 350(3), 365(3), 441(3)
    - b. Learning and Cognition: PSY 306(3), 422(3), 502(3)
    - c. Biological Processes: PSY 336(3), 506(3), 521(3), 525(3)
    - d. Applied: PSY 304(3), 359(3), 512(3), 529(3)
  3. Additional 9 hours of psychology electives, at least 6 hours of which must be numbered 300 or above.
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Gerontology

#### Bachelor of Arts

#### Bachelor of Science

#### Bachelor of Social Work

- A. Required Core Courses: GER 380(3); and two of the following courses: GER 310/SOC 375(3); PSY 365(3), PSY 451(3)
- B. Complete an additional 9 hours of elective courses chosen from the following with approval of the program coordinator or delegate to bring total hours in minor to at least 18 hours: GER 300(1); GER 310/SOC 375(3)\*; GER 320/PSY 354(3); GER 365/CFD 365/PSY 366/SWK 365(3); GER 396(1-3); GER 397(1-3); GER 597(1-3); PSY 309(3); PSY 363(3); PSY 365(3)\*; PSY 451(3)\*; COM 390(3); PED 567(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.

## **Gerontology Courses**

### **GER 300 Service Learning Curricular Component**

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. 1 F,S

### **GER 301 The Elderly and the Media: Confronting Popular Stereotypes**

Prerequisite: 30 hours. 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. 1(1-0) D

### **GER 310 Social Forces and Aging**

Prerequisite: 45 hours. 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. Identical with SOC 375. Cannot receive credit for both GER 310 and SOC 375. 3(3-0) F

### **GER 320 Gender Issues in Later Life**

Prerequisite: PSY 121; and GST 170 or 45 hours. 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. Identical to PSY 354. Can only receive credit for one of the following: GER 320 or PSY 354. 3(3-0) S

### **GER 365 Families in Later Life**

Prerequisite: PSY 121; and CFD 155 or CFD 163 or 30 hours. 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. Identical with CFD 365, SWK 365, and PSY 366. Can only receive credit for one of following: CFD 365, GER 365, PSY 366 or SWK 365. 3(3-0) F

### **GER 380 Senior Citizens: Policies and Politics**

Prerequisite: 9 hours of gerontology. 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. 3(3-0) S

### **GER 396 Directed Readings in Gerontology**

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. 1-3 D

### **GER 397 Special Topics in Gerontology**

Prerequisite: 6 hours of designated courses in the gerontology major. 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. 1-3 D

### **GER 470 Community Resources for Older Adults**

Prerequisite: PSY 121. 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. Identical with SWK 470. Cannot receive credit for both GER 470 and SWK 470. 3(3-0) F

### **GER 597 Special Topics in Gerontology**

Prerequisite: 90 hours; and 12 hours of gerontology. 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. May be taught concurrently with GER 697. Cannot receive credit for both GER 697 and GER 597. 1-3 D

**GER 598 Supervised Practicum in Gerontology**

Prerequisite: concurrent enrollment in GER 599; completion of gerontology core courses with a grade of "C" or better in each; and permission of the program coordinator. Onsite 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. 3-12 F,S

**GER 599 Seminar in Gerontology**

Prerequisite: concurrent enrollment in GER 598; 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 598 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. 3(3-0) F,S

**GER 697 Special Topics in Gerontology**

Recommended Prerequisite: 12 hours of Gerontology. In-depth inquiry into selected interdisciplinary topics of contemporary interest in gerontology. Variable content course. May be repeated to a total of 6 hours when topic changes. May be taught concurrently with GER 597. Cannot receive credit for both GER 597 and GER 697. 1-3, D

## Psychology Courses

**PSY 101 Psychology for Personal Growth**

General Education Course (Self-Understanding/Social-Behavioral Perspective). 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. 3(3-0) F,S

**PSY 121 Introductory Psychology**

General Education Course (Self-Understanding/Social-Behavioral Perspective). 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. 3(3-0) F,S

**PSY 150 Introduction to the Psychology Major**

This course is required for admission to the psychology degree program and is recommended for students considering psychology as a major. Students will learn about specialties and careers in the field, understand the training and education necessary for various careers, develop professional goals, explore minor options, and become familiar with the psychology faculty and their specialties. Not required for the Psychology minor. 1(1-0) F,S,Su

**PSY 160 The Pursuit of Happiness: A Psychological Perspective**

Explore the sources of our moods with an emphasis on skills for achieving healthy, happy, and productive feelings. 1(1-0) D

**PSY 197 Topics in Psychology**

Selected topics especially appropriate for lower division students (examples: meaning of death, preparation for marriage, and child rearing practices). May be repeated for a maximum of 4 hours. 1(1-0) F,S

**PSY 200 Psychological Statistical Methods**

Prerequisite: PSY 121; and completion of General Education mathematics requirement. 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, MTH 340, QBA 237, REC 328, SOC 302. 3(3-0) F

**PSY 203 Introduction to Research**

Prerequisite: PSY 121; and completion of General Education mathematics requirement. 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. 3(3-0) S

**PSY 250 Analysis of Interpersonal Behavior**

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. 3(0-6) D

**PSY 300 Naturalistic Methods in Social Psychology**

Prerequisite: PSY 121, and 6 additional hours of Psychology. An alternative approach to social psychological processes. Involves text analysis, materials analysis, interviewing, and participant observation in naturally occurring, non-laboratory field settings. Focus will be on small group behavior. 3(3-0) D

**PSY 302 Experimental Psychology**

Prerequisite: PSY 121 and PSY 200. Psychological methodology; major emphasis on experimentation. 3(2-2) F,S

**PSY 303 Stress and Tension Control**

Prerequisite: PSY 121. An examination of the nature and treatment of the stress response. Laboratory experience with several forms of relaxation training including biofeedback. 3(2-2) D

**PSY 304 Abnormal Psychology**

Prerequisite: PSY 121. Psychopathology and the maladjustment of the organism. 3(3-0) F,S

**PSY 305 Introduction to Industrial and Organizational Psychology**

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. 3(3-0) F,S

**PSY 306 Learning Processes**

Prerequisite: PSY 121. A survey of the methods of classical and instrumental conditioning. 3(3-0) F,S

**PSY 307 Human Sexuality**

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. 3(3-0) D

**PSY 309 Identity and Aging in Literature and Film**

Prerequisite: PSY 121 and 3 additional hours of Psychology. Emphasizes the experience of aging as perceived from the older person's point of view and that of society. Situations in later life will be explored through the use of short stories, selected articles, and videos. The topics covered will include health, friendship and relationships, widowhood, family and intergenerational relations, perceptions of death and dying, and finding purpose and meaning in life. Students will acquire a basic understanding of identity issues and factors that contribute to well-being in later life. 3(3-0) S

**PSY 310 Applied Psychology**

Prerequisite: PSY 121. Practical areas of application of psychology. Limited enrollment; field trips required. 3(3-0) D

**PSY 311 Service Learning in Psychology**

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. 1 F,S

**PSY 315 History and Systems of Psychology**

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. 3(3-0) F,S

**PSY 317 Psychology of Addictions**

Prerequisite: PSY 121. Students in the course will learn basic psychological and psychophysiological processes involved in the progression of substance use, abuse, and addiction. Topics covered will include the conduct of individual assessment, interviewing techniques, and counseling processes. This class is intended to give students an understanding of individual, motivational, and social psychological perspectives. 3(3-0) F,S

**PSY 320 Psychology and the Law**

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. 3(3-0) F,S

**PSY 331 Psychology of Childhood**

Prerequisite: PSY 121. This course examines major psychological issues, theories and research concerning child development. Influences on cognitive, personality and social development are analyzed. 3(3-0) F,S

**PSY 336 Ethology**

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. 3(3-0) F,S

**PSY 339 Introduction to Clinical Psychology**

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. 3(3-0) F,S

**PSY 350 Psychology of Adulthood**

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. 3(3-0) F,S

**PSY 354 Gender Issues in Later Life**

Prerequisite: PSY 121; and GST 170 or 45 hours. 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. Identical to GER 320. Can only receive credit for one of the following: GER 320 or PSY 354. 3(3-0) S

**PSY 355 The Psychology of Women**

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. 3(3-0) D

**PSY 356 The Psychology of Men**

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. 3(3-0) D

**PSY 359 Theories of Social Psychology**

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. 3(3-0) F

**PSY 360 Educational Psychology**

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. 3(3-0) F,S

**PSY 363 Death and Human Behavior**

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. 3(3-0) D

**PSY 365 Aging and Adjustment**

Prerequisite: PSY 121. 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. 3(3-0) F

**PSY 366 Families in Later Life**

Prerequisite: PSY 121; and CFD 155 or CFD 163 or 30 hours. 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. Identical with CFD 365, GER 365, and SWK 365. Can only receive credit for one of following: CFD 365, GER 365, PSY 366, or SWK 365. 3(3-0) F

**PSY 379 Environmental Psychology**

Prerequisite: PSY 121. Study of the effects which specific physical environments have on the social behavior of individuals and groups. 3(3-0) S

**PSY 380 Development of the Student**

Prerequisite: PSY 121; and either ELE 302 or SEC 302. 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. Credit will be awarded for only one of the following: PSY 380, PSY 385, PSY 390. 4(4-0) F,S

**PSY 385 Development of the Early Childhood and Elementary School Student**

Prerequisite: PSY 121. 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. Credit will be awarded for only one of the following: PSY 380, PSY 385, PSY 390. 3(3-0) F,S

**PSY 390 Development of the Adolescent Student**

Prerequisite: PSY 121 and SEC 302. 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. Credit will be awarded for only one of the following: PSY 380, PSY 385, PSY 390. 3(3-0) F,S

**PSY 405 Exercise Psychology**

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. 1(1-0) D

**PSY 411 Psychology of Diverse Populations**

Prerequisite: senior standing; and 27 hours of Psychology. Capstone course reviewing research and theory in social cognition, biological bases of behavior, development, individual differences, and psychopathology as they apply to ethnicity, sexual orientation, gender, language, exceptionality, aging, privilege/disadvantage, and other aspects of diversity. Similarities and differences in human thoughts and behaviors will be evaluated to better understand individual and group outcomes. 3(3-0) F,S,Su

**PSY 422 Memory and Cognition**

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. 3(2-2) S

**PSY 441 Psychology of Adolescence**

Prerequisite: PSY 121 and one additional psychology course, and junior standing. This course examines major psychological issues, theories, and research concerning adolescent development. Influences on cognitive, personality, and social development are analyzed. 3(3-0) F,S

**PSY 451 Psychophysiology of Aging**

Prerequisite: PSY 121; and BIO 102 or BMS 100 or BMS 110. This course will provide an introduction to the biology and physiology of aging. Students will examine broad changes in structure and function in humans, and get a closer look at changes in systems, organs, tissues, and cells in humans and some nonhumans. The class will explore the implications of these changes on function and independence in old age; learn about the impact of these changes on research and development of therapeutic measures to prevent, maintain or improve structure and function; and study methods for preventing decline, and maintaining and improving health and quality of life in older adults. 3(3-0) F

**PSY 481 Human Engineering**

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. 3(3-0) F

**PSY 486 Management and Assessment in the Middle and Secondary Classroom**

Prerequisite: admission to Teacher Education Program and PSY 360, or equivalent competencies. Planning, constructing, using, and analyzing a variety of assessment practices and understanding uses of standardized testing in education. Covers adolescent social behavior, management theory and strategies that promote effective learning and development while minimizing disruptive behavior. Application of theory to classroom practice and everyday situations. Identical with SFR 486. Cannot receive credit for both PSY 486 and SFR 486. 3(3-0) F,S,Su

**PSY 487 Behavior Problems of Childhood**

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. 3(3-0) D

**PSY 490 Preparation for Graduate School**

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. 1(1-0) F

**PSY 493 Directed Readings in Educational Psychology**

Prerequisite: PSY 121 and permission of the instructor. This course is designed for transfer students who are seeking teacher certification and who need to complete a limited number of MOSTEP standards. The course will involve inquiry into selected topics of educational psychology. 1 F,S

**PSY 495 Senior Seminar**

Prerequisite: senior standing (90 hours); and 27 hours of Psychology. Activities to help students identify and explore postgraduate career opportunities. A major field achievement test and program evaluation will be administered. 1(1-0) F,S

**PSY 496 Directed Readings in Psychology**

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. 1-4 F,S

**PSY 497 Advanced Topics in Psychology**

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. 1-3 F,S. Approved recurring course topic: Ethical Issues and Concepts. Exploration of the ethical principles and standards that guide the practice of psychology. 1(1-0) D. Approved recurring course topic: Psychological Disorders in the Movies. Exploration and examination of psychological disorders in film. 1(1-0) D

**PSY 498 Directed Research**

Prerequisite: PSY 121 and permission of sponsoring faculty member and department head. Allows students to gain research experience by working with an individual faculty member either as a research assistant or as a primary researcher working under faculty supervision. May be repeated for a maximum of 6 hours. 1-4 F,S

**PSY 499 Practicum in Psychology**

Prerequisite: PSY 121 and 14 additional hours of psychology and permission of department head. Offers an opportunity for the student to obtain experience through field work. Such experience need not be confined to the campus. May be repeated for a maximum of six hours. 1-4 F,S

**PSY 502 Learning Theories**

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. May be taught concurrently with PSY 602. Cannot receive credit for both PSY 602 and PSY 502. 3(3-0) S

**PSY 505 Forensic Child Psychology**

Prerequisite: PSY 121. Explores the basics of forensic psychology with emphasis on factors that affect children, how these factors are assessed and how communities intervene to reduce both child crime and child victimization. The class will involve text analysis as well as analysis of primary source readings. May be taught concurrently with PSY 604. Cannot receive credit for both PSY 604 and PSY 505. 3(3-0) D

**PSY 506 Perception**

Prerequisite: PSY 121 and 3 additional hours of psychology. Nature of perception, concept formation and role of language. May



be taught concurrently with PSY 606. Cannot receive credit for both PSY 606 and PSY 506. 3(3-0) S

**PSY 508 Behavior Management and Change**

Prerequisite: PSY 121. To investigate methods and theory for effecting desirable behavior change in schools, homes and personal lives. May be taught concurrently with PSY 614. Cannot receive credit for both PSY 614 and PSY 508. 3(3-0) F

**PSY 510 Research in Psychology**

Prerequisite: PSY 121; and PSY 200 or equivalent; and PSY 302. Advanced course in research methodology for psychology. The course focuses on individual research projects. 4(3-2) F

**PSY 512 Personality Theory and Systems**

Prerequisite: PSY 121 and PSY 304. Current theories of personality, research background and historical development. May be taught concurrently with PSY 612. Cannot receive credit for both PSY 612 and PSY 512. 3(3-0) S

**PSY 514 Psychology of Child Abuse and Exploitation**

Prerequisite: PSY 121 and 60 hours. Study of forensic issues related to child abuse and exploitation. Students will gain an understanding of the forensic and psychological issues that often arise during child abuse investigations. The Child Advocacy Center, Inc. will participate in the design of the course, thus the specific forensic issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 617. Cannot receive credit for both PSY 514 and PSY 617. 3(3-0) F,S

**PSY 519 Cognitive Development**

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. May be taught concurrently with PSY 619. Cannot receive credit for both PSY 619 and PSY 519. 3(3-0) D

**PSY 521 Physiological Psychology**

Prerequisite: PSY 121 and 3 additional hours of psychology. Physiological correlates underlying behavior, including sensory and response mechanisms, central nervous system. May be taught concurrently with PSY 622. Cannot receive credit for both PSY 622 and PSY 521. 3(3-0) F

**PSY 525 Motivation and Emotions**

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. May be taught concurrently with PSY 625. Cannot receive credit for both PSY 625 and PSY 525. 3(3-0) F

**PSY 527 Advanced Psychological Statistical Methods**

Prerequisite: introductory statistics selected from: PSY 200, 711; AGR 330; MTH 340; QBA 237; REC 328; 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. May be taught concurrently with PSY 627. Cannot receive credit for both PSY 627 and PSY 527. 3(3-0) S

**PSY 529 Psychological Tests and Measurements**

Prerequisite: PSY 121; and PSY 200 or equivalent. Theory and techniques underlying measurement of human traits and abilities. Critical analysis of intellectual, achievement, interest and personality tests, including their development, application and potential abuses. May be taught concurrently with PSY 629. Cannot receive credit for both PSY 629 and PSY 529. 3(3-0) F,S

**PSY 533 Psychological Issues in Religion**

Prerequisite: PSY 121 and REL 100. Comprehensive overview of historical background, research methods, and contemporary issues involving behavior and religious beliefs. Psychological research in the areas of religious development and cognition will be included. May be taught concurrently with PSY 633. Cannot receive credit for both PSY 633 and PSY 533. 3(3-0) F

**PSY 534 Psychology of Infancy**

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. May be taught concurrently with PSY 634. Cannot receive credit for both PSY 634 and PSY 534. 3(3-0) D

**PSY 535 Discipline and Social Behavior in the Classroom**

Prerequisite: PSY 121; and PSY 360 or PSY 380 or PSY 385 or PSY 390. 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. May be taught concurrently with PSY 635. Cannot receive credit for both PSY 635 and PSY 535. 3(3-0) D

**PSY 550 Psychological Testing in Remedial Reading**

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. May be taught concurrently with PSY 648. Cannot receive credit for both PSY 648 and PSY 550. 3(2-2) D

**PSY 555 Developing Sport Team Leaders**

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. May be taught concurrently with PSY 649. Cannot receive credit for both PSY 649 and PSY 555. 1(1-0) D

**PSY 556 Developing Sport Team Leaders Practicum**

Prerequisite: PSY 555 or concurrent enrollment; and permission of instructor. Complementing PSY 555 Developing Sport Team Leadership, this course provides a 2-credit option for students to document the application of a leadership development plan on a sport team. This course reinforces the value of leadership and leadership development on sport teams by helping to make "team leadership" a core team value. Advancing this objective, students learn to align the values of sport teams with the broader values of educational institutions. Students taking this course must provide evidence that they have permission to implement a leadership development program on an organized sport team prior to enrolling in the class (hours the student spends with the team must exceed 90 hours). May be taught concurrently with PSY 656. Cannot receive credit for both PSY 656 and PSY 556. 2(2-0) D

**PSY 557 Forensic Psychology: Child Abuse and the Law**

Prerequisite: PSY 121 and 60 hours. Study of the legal issues related to child abuse and exploitation. Students will gain an understanding of the law pertaining to child cases and how interactions with children can bolster or diminish the quality of children's memory report as seen by the judicial system. The Greene County Prosecutor's Office will participate in the design of this course, thus the specific legal issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 657. Cannot receive credit for both PSY 557 and PSY 657. 3(3-0) F,S

**PSY 565 Psychological Effects of Dementia**

Prerequisite: PSY 121, PSY 365. Description of dementias, with particular references to Alzheimer's Disease and with emphasis on behavioral consequences for both patient and caregiver. Directed practicum. May be taught concurrently with PSY 669. Cannot receive credit for both PSY 669 and PSY 565. 4(2-4) D

**PSY 597 Specialized Topics in Psychology**

Prerequisite: 9 hours of Psychology. Specialized investigation into selected topics in psychology. Graduate students will be required to complete an extra project to be determined by the instructor. May be repeated to a maximum of 9 hours if topic is different. Variable content course. May be taught concurrently with PSY 695. Cannot receive credit for both PSY 695 and PSY 597. 1-3 D

**PSY 602 Learning Theories**

Recommended 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. May be taught concurrently with PSY 502. Cannot receive credit for both PSY 502 and PSY 602. 3(3-0) S

**PSY 604 Forensic Child Psychology**

Recommended Prerequisite: PSY 121. Explores the basics of forensic psychology with emphasis on factors that affect children, how these factors are assessed and how communities intervene to reduce both child crime and child victimization. The class will involve text analysis as well as analysis of primary source readings. May be taught concurrently with PSY 505. Cannot receive credit for both PSY 505 and PSY 604. 3(3-0), D

**PSY 606 Perception**

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology. Nature of perception, concept formation and role of language. May be taught concurrently with PSY 506. Cannot receive credit for both PSY 506 and PSY 606. 3(3-0), S

**PSY 612 Personality Theory and Systems**

Recommended Prerequisite: PSY 121 and PSY 304. Current theories of personality, research background and historical development. May be taught concurrently with PSY 512. Cannot receive credit for both PSY 512 and PSY 612. 3(3-0), S

**PSY 614 Behavior Management and Change**

Recommended Prerequisite: PSY 121. To investigate methods and theory for effecting desirable behavior change in schools, homes and personal lives. May be taught concurrently with PSY 508. Cannot receive credit for both PSY 508 and PSY 614. 3(3-0), F

**PSY 617 Psychology of Child Abuse and Exploitation**

Study of forensic issues related to child abuse and exploitation. Students will gain an understanding of the forensic and psychological issues that often arise during child abuse investigations. The Child Advocacy Center, Inc. will participate in the design of the course, thus the specific forensic issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 514. Cannot receive credit for both PSY 617 and PSY 514. 3(3-0) F,S

**PSY 619 Cognitive Development**

Recommended 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. May be taught concurrently with PSY 519. Cannot receive credit for both PSY 519 and PSY 619. 3(3-0), D

**PSY 622 Physiological Psychology**

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology. Physiological correlates underlying behavior, including sensory and response mechanisms, central nervous system. May be taught concurrently with PSY 521. Cannot receive credit for both PSY 521 and PSY 622. 3(3-0), F

**PSY 625 Motivation and Emotions**

Recommended 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. May be taught concurrently with PSY 525. Cannot receive credit for both PSY 525 and PSY 625. 3(3-0), F

**PSY 627 Advanced Psychological Statistical Methods**

Recommended Prerequisite: introductory statistics course selected from PSY 200, 711; AGR 330; ECO 308; MTH 340; QBA 237; REC 328; 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. May be taught concurrently with PSY 527. Cannot receive credit for both PSY 527 and PSY 627. 3(3-0), S

**PSY 629 Psychological Tests and Measurements**

Recommended Prerequisite: PSY 121 and PSY 200 or equivalent. Theory and techniques underlying measurement of human traits and abilities. Critical analysis of intellectual, achievement, interest and personality tests, including their development, application and potential abuses. May be taught concurrently with PSY 529. Cannot receive credit for both PSY 529 and PSY 629. 3(3-0), F,S

**PSY 633 Psychological Issues in Religion**

Recommended Prerequisite: PSY 121 and REL 100. Comprehensive overview of historical background, research methods, and contemporary issues involving behavior and religious beliefs. Psychological research in the areas of religious development and cognition will be included. May be taught concurrently with PSY 533. Cannot receive credit for both PSY 533 and PSY 633. 3(3-0), F

**PSY 634 Psychology of Infancy**

Recommended 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. May be taught concurrently with PSY 534. Cannot receive credit for both PSY 634 and PSY 534. 3(3-0), D

**PSY 635 Discipline and Social Behavior in the Classroom**

Recommended Prerequisite: PSY 121; and either PSY 360, PSY 380, PSY 385, or PSY 390. 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. May be taught concurrently with PSY 535. Cannot receive credit for both PSY 535 and PSY 635. 3(3-0), D

**PSY 648 Psychological Testing in Remedial Reading**

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. May be taught concurrently with PSY 550. Cannot receive credit for both PSY 550 and PSY 648. 3(2-2), D

**PSY 649 Developing Sport Team Leaders**

This online 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. May be taught concurrently with PSY 555. Cannot receive credit for both PSY 555 and PSY 649. 1(1-0), D

**PSY 656 Developing Sport Team Leaders Practicum**

Prerequisite: PSY 649 or concurrent enrollment. Complementing PSY 649 Developing Sport Team Leadership, this course provides a 2-credit option for students to document the application of a leadership development plan on a sport team. This course reinforces the value of leadership and leadership development on sport teams by helping to make "team leadership" a core team value. Advancing this objective, students learn to align the values of sport teams with the broader values of educational institutions. Students taking this course must provide evidence that they have permission to implement a leadership development program on an organized sport team prior to enrolling in the class (hours the student spends with the team must exceed 90 hours). May be taught concurrently with PSY 556. Cannot receive credit for both PSY 556 and PSY 656. 2(2-0), D

**PSY 657 Forensic Psychology: Child Abuse and the Law**

Study of the legal issues related to child abuse and exploitation. Students will gain an understanding of the law pertaining to child cases and how interactions with children can bolster or diminish the quality of children's memory report as seen by the judicial system. The Greene County Prosecutor's Office will participate in the design of this course, thus the specific legal issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 557. Cannot receive credit for both PSY 657 and PSY 557. 3(3-0) F,S

**PSY 669 Psychological Effects of Dementia**

Recommended Prerequisite: PSY 121 and PSY 365. Description of dementias, with particular references to Alzheimer's Disease and with emphasis on behavioral consequences for both patient and caregiver. Directed practicum. May be taught concurrently with PSY 565. Cannot receive credit for both PSY 565 and PSY 669. 4(2-4), D

**PSY 695 Specialized Topics in Psychology**

Recommended Prerequisite: 9 hours of Psychology. Specialized investigation into selected topics in psychology. Graduate students will be required to complete an extra project to be determined by the instructor. May be repeated to a maximum of 9 hours if topic is different. Variable content course. May be taught concurrently with PSY 597. Cannot receive credit for both PSY 695 and PSY 597. 1-3, D

**PSY 700 Problems of Psychology**

Individual investigation into a problem or problems of concern to the student and deemed of significance by the instructor. Written report required. 1-3, D

**PSY 701 Symposium in Psychology**

Specific topics selected to introduce graduate students to research and theory. May be repeated for a maximum of 6 hours. 1-3, D

**PSY 703 Human Growth and Development**

Depth investigation of growth and development during elementary school years. Experimental evidence and clinical evaluations used to supplement consideration of major theories of development. 3(3-0), D

**PSY 705 Psychology of Adolescence**

Depth investigation of growth and development during the adolescent period. Experimental evidence and clinical evaluation used to supplement consideration of major theories of adolescence. 3(3-0), D

**PSY 707 Psychology of the Adult**

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. 3(3-0), D

**PSY 708 Memory**

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. 3(3-0), F

**PSY 709 Psychological Evaluation of Pre-School Children**

Program involving both theory and practice in psychological evaluation of pre-school children. 3(3-0), D

**PSY 710 Psychology of Education**

Orientation to the use of psychology in education. 3(3-0), F

**PSY 711 Introductory Statistics for Education and Psychology**

Statistical techniques used in education and psychology; overview of scaling techniques, sampling, descriptive techniques, inferential techniques (to include t and x<sup>2</sup>), reliability and validity. 3(3-0), D

**PSY 716 Personnel Psychology**

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. 3(3-0), D

**PSY 718 Organizational Psychology**

Recommended Prerequisite: PSY 121 and PSY 304. 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. 3(3-0), D

**PSY 720 Individual Intelligence Testing**

Prerequisite: PSY 629 or COU 701. 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. Supplemental course fee. 3(2-2), F,S

**PSY 721 Individual Intelligence Testing II**

Prerequisite: PSY 629 or COU 701. 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. 3(2-2), D

**PSY 730 Projective Techniques**

Prerequisite: COU 701 and PSY 720. Introduction to theory of and basic underlying projective methods. 3(3-0), D

**PSY 740 Psychological Assessment**

Prerequisite: admission to MS in Psychology program. 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. 3(3-0), S

**PSY 742 Practicum in Psychological Assessment**

Prerequisite: PSY 740 and PSY 750 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. 3(1-4), D

**PSY 745 Statistics and Research Design**

Recommended Prerequisite: introductory statistics course from PSY 200, 611; AGR 330; ECO 308; MTH 340; QBA 237; REC 328; SOC 302; or equivalent. Use of the Analysis of Variance (ANOVA) Models and Multivariate Analysis in the design and analysis of psychological experiments. 3(3-0), F

**PSY 750 Advanced Survey of Psychology**

Reinforce breadth of knowledge of psychology in the areas of Biological bases of behavior, Sensation and Perception, Memory, Cognition, Motivation, Development and Social Psychology. 3(3-0), F

**PSY 751 Seminar in Methods of Research**

Prerequisite: PSY 710 and PSY 711. Investigation of research methods employed in education and psychology. 3(3-0), D

**PSY 752 Research Methods**

Prerequisite: PSY 745. Provides an understanding of the research methods employed in experimental and applied settings. Includes ethical considerations. 3(3-0), S

**PSY 753 Program Evaluation**

Prerequisite: PSY 745. The application of research methods to the evaluation of programs and planned change interventions in organizations. 3(3-0), D

**PSY 759 Teaching of Psychology**

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. 1(1-0), D

**PSY 760 Clinical Communication Skills**

Prerequisite: admission to MS in psychology. Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication, and development of basic helping skills. 3(3-0), F

**PSY 761 Ethical and Professional Issues**

Prerequisite: admission to MS in psychology. 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. 3(3-0), F

**PSY 764 Group Psychotherapy**

Prerequisite: permission of 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. 3(3-0), D

**PSY 765 Techniques of Individual Psychotherapy**

Prerequisite: admission to MS in Psychology program. An in-depth investigation of major strategies of psychotherapy and their efficacy. Emphasis on theoretical bases and critical analysis of comparative research. 3(3-0), S

**PSY 766 Psychopathology**

Focus is on the differential diagnosis of behavior disorders, the appropriate use of the multi-axial approach of DSM-IV, and current research. 3(3-0), F

**PSY 767 Behavior Disorders of Childhood**

Prerequisite: PSY 766. 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. 3(3-0), S

**PSY 768 Personality and Social Development**

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. 3(3-0), D

**PSY 771 Organizational Health Psychology**

Prerequisite: PSY 718. 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. 3(3-0), S

**PSY 772 Performance Assessment**

Prerequisite: PSY 716 and PSY 745. 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. 3(3-0), D

**PSY 773 Human Factors**

Prerequisite: PSY 751. 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. 3(3-0), D

**PSY 774 Training and Development**

Prerequisite: PSY 716 and PSY 718. 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. 3(3-0), D

**PSY 776 Personnel Selection, Placement and Classification**

Prerequisite: PSY 716 and PSY 745. An 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. 3(3-0), D

**PSY 778 Group Processes**

Prerequisite: PSY 718. 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. 3(3-0), D

**PSY 779 Topics in Industrial/Organizational Psychology**

Prerequisite: PSY 716 and PSY 718. 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. 3(3-0), D

**PSY 780 Social Psychology**

Prerequisite: admission to the MS in Psychology program. Advanced study of interactions and social cognition, including attitude change, person perception, and group dynamics. 3(3-0), S

**PSY 796 Practicum**

Prerequisite: admission to the MS in Psychology program. 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. Variable content course. May be repeated for a maximum of 6 hours. 1-6, F,S

**PSY 797 Directed Research**

Prerequisite: admission to MS in Psychology program. 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. 1-6, F,S

**PSY 798 Internship**

Prerequisite: PSY 796 and permission. Supervised fieldwork in a professional psychology setting. Includes a seminar paper as a requirement. 1-6, F,S

**PSY 799 Thesis**

Prerequisite: admission to MS in Psychology program. Independent research and study leading to the completion of the thesis. 1-6, D

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## Public Health Program

McQueary Family Health Sciences Hall, Room 112, Phone: (417) 836-8850, Fax: (417) 836-8418

Website: <http://www.missouristate.edu/mph>

Director: Associate Professor Vickie L. Sanchez, Ph.D.

### Faculty (as of )

**Professor:** Dalen Duitsman, H.S.D

**Assistant Professor:** David M. Claborn, Dr.P.H.

**Assistant Professor:** Elizabeth B. Federman, Sc.D.

### Graduate Programs

The following graduate programs are available:

Master of Public Health.

#### Accelerated Master of Public Health Degree

Eligible Missouri State undergraduate majors may apply for preliminary acceptance into the Master of Public Health program after admission requirements for the accelerated master's option have been satisfied. Once accepted, a maximum of 12 hours chosen from approved 600 or 700 level courses may be counted toward both the undergraduate and graduate degrees (Mixed Credit). This option gives the exceptional undergraduate students from a variety of majors the opportunity to complete the course requirements for the Master of Public Health degree in as little as three semesters and a summer after attaining the bachelors degree rather than the typical four to five semesters and a summer.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

Refer to the [Graduate Catalog](#) for more information.

### Public Health Courses

#### PBH 720 Epidemiology

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. Identical with NUR 700. Cannot receive credit for PBH 720 and NUR 700. 3(3-0), F,S

#### PBH 730 Biostatistics in Health Sciences

This course is an introduction to biostatistical methods in the context of public health and medical sciences. Major topics will include: research design and measurement, sampling, exploratory data analysis, probability and sampling distributions, hypothesis testing, contingency table analysis, nonparametric methods, correlation, linear regression, logistic regression and survival analysis. Emphasis will be on developing an understanding of these methods and drawing appropriate conclusions from analysis findings. Students will also be introduced to statistical programming packages. 3(3-0) F,S

#### PBH 735 Software Applications and Data Sources in Public Health

Prerequisite: permission of instructor. This course will provide an overview of important software and databases that are commonly used in public health surveillance, program planning and research. Students will learn to access, analyze, and interpret morbidity and mortality data from a variety of national and statewide data sources (e.g., NHANS, BRFSS, MICA, CDC Wonder, vital statistics). Data will be analyzed descriptively using statistical software including Excel, CDC's EpiInfo, SPSS and/or SAS. 3(3-0), F

#### PBH 740 Health Behavior

This course examines selected theories of health behavior relevant to individual and community health promotion program planning. Students will analyze biological, psychological, sociological, and environmental influences on health behavior and evaluate strategies for health promotion. 3(3-0) F

#### PBH 745 Environmental Health

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. 3(3-0), F,S

**PBH 756 Introduction to Public Health**

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. 3(3-0), F,S

**PBH 758 Contemporary Issues in Public Health**

In-depth consideration of pertinent issues, trends, controversy, and current research in public health. 3(3-0), F

**PBH 760 Research Methods in Public Health**

This course is designed to help students gain the necessary knowledge and skills for undertaking research on issues related to public health. 3(3-0) S

**PBH 772 Toxicology and Hazardous Materials**

A study of toxic substances and their effects in the environment and in living organisms. This course also includes a study of safety methods for identifying, monitoring, handling, processing, containing, storing, and disposing hazardous and toxic substances in the environment and workplace. Students are encouraged to have had courses in physiology, biochemistry and/or pharmacology. 3(3-0), F

**PBH 775 Principles and Skills of Public Health Administration**

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. 3(3-0), S

**PBH 778 Chronic Disease Epidemiology**

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. 3(3-0), S

**PBH 781 Public Health Preparedness**

This course will investigate the health risks and hazards associated with emergency situations, and the roles of public health professionals and volunteers in the preparation for and response to emergencies and disasters. 3(3-0) F

**PBH 783 International Health and Infectious Disease**

This course will investigate the epidemiology, impact, and control of infectious diseases in the context of the international environment. Topics will include the structure and financing of health systems in the developing world, the medical community's ability to respond to infectious disease risks, and the specific impacts of major infectious diseases with an emphasis on tuberculosis, AIDS, and malaria. This course is not a clinical course and will not address the diagnosis or treatment of disease. 3(3-0) S

**PBH 785 Seminar in Public Health**

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. 1-3, D

**PBH 788 Public Health Practicum**

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. 1, D

**PBH 790 Independent Study in Public Health**

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. 1-3, D

**PBH 798 Public Health Field Experience**

Prerequisite: students must have successfully completed 33 hours including all public health core and other required courses and passed the core course exam. 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. The field experience can be done during the fall, spring, or summer and can be no less than 200 hours. All field experiences must be approved by the field experience faculty supervisor and the Program Director to ensure the site acceptability. May be repeated. 1-6, D

**PBH 799 Capstone Project in Public Health**

Prerequisite: admission to the Master of Public Health program. The Capstone Project provides students the opportunity to integrate knowledge gained in the classroom with real-world problems through completion of a major research, program planning, policy development, management, service delivery, or evaluation project. Some aspect of the project must be original, whether it is the topic itself, an analysis of newly collected or extant data, the reinterpretation of others' finding, or the design and completion of a community project. While student led, the project is designed in consultation with, and carried out under the guidance of, a faculty supervisor. Student must have the capstone project proposal form approved by the faculty supervisor and Program Director prior to enrollment. 3(3-0), D



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## School of Social Work

Pummill Hall, Room 301A, Phone: (417) 836-6953, Fax: (417) 836-7688  
Email: [SocialWork@missouristate.edu](mailto:SocialWork@missouristate.edu)  
Website: <http://www.missouristate.edu/swk>  
Director: Associate Professor Susan C. Dollar, Ph.D., LCSW

### Faculty (as of July 15, 2011)

**Professor:** Susan Dollar, LCSW, Ph.D.; Mary Ann Jennings, Ph.D.; Joan McClennen, Ph.D.

**Assistant Professors:** Michele L. Day, Ph.D.; Darryl Haslam, Ph.D.

**Coordinator of Field Education and MSW Program, Joplin:** Renee White, Ed.D., LCSW

**Coordinator of Field Education, Springfield:** Lisa A. Street, M.S.W., LCSW

### Accreditation

Council on Social Work Education (CSWE) – Social Work, B.S.W., M.S.W.

### Graduate Programs

The following graduate programs are available:

Master of Social Work degree

Refer to the [Graduate Catalog](#) for more information.

### Majors

#### Social Work (Comprehensive)

Bachelor of Social Work

#### Admission Requirements

Students are eligible to apply for admission into the BSW program when the following conditions are met:

- A. Completion of a minimum of 45 hours;
- B. Completion of the Basic Required Courses for General Education except Writing II;
- C. Completion of or enrollment in SWK 212, Introduction to Social Work, and SWK 219, Human Diversity, with a minimum grade of "C";
- D. Completion of or enrollment in SWK 300, Citizenship and Service Learning (CASL), which is a one hour course attached to one of three courses: (a) SWK 212, Introduction to Social Work; (b) SWK 219, Human Diversity; or (c) SWK 205, Interviewing Skills in Generalist Social Work Practice. A 40-hour volunteer/work experience in a human service agency within three years prior to application for admission can be substituted for this CASL experience with permission of the BSW program coordinator.

#### Degree Requirements

The undergraduate Social Work program at Missouri State University builds upon a liberal arts education while preparing students for the practice of social work, with an emphasis on the strengths perspective. Social Work is a comprehensive major consisting of 48 hours of required social work courses; 20-28 hours of required courses from the humanities and the social, behavioral, and biological sciences; and 6 hours of electives offered by the School of Social Work (SWK electives). Students who successfully complete general education, all general baccalaureate requirements and major requirements are awarded a Bachelor of Social Work degree.

Prospective students are encouraged to contact the coordinator of the Social Work program with any questions or concerns. Accepted students are expected to consult with their advisor, at least, one every semester.

All students admitted to the Social Work program must attain a Missouri State combined GPA of 2.50 or higher at the time of graduation.

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 Requirements - see [General Education Program and Requirements](#) 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); PSY 121(3); SOC 150(3)

B. Major Requirements

1. SWK 205(3), 212(3), 219(3), 222(3), 308(3), 309(3), 318(3), 322(3), 405(3), 409(3), 420(3), 430(3), 480(3), 490(9) and two SWK electives (6 hours).
2. ECO 155(3) or 165(3); PSY 304(3); PSY 200(3) or SOC 302(3) or AGR 330(3) or MTH 340(3) QBA 237(3) or REC 328(3)

C. Grade Point Average: all students admitted to the Social Work program must attain a Missouri State combined GPA of 2.50 or higher at the time of graduation.

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Social Work Courses

### **SWK 205 Interviewing Skills in Generalist Social Work Practice**

Prerequisite: SWK 212 or concurrent enrollment; and SWK 219 or concurrent enrollment; and SWK 222 or concurrent enrollment; and SWK 308 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. 3(3-0) F

### **SWK 212 Introduction to Social Work**

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. 3(3-0) F,S

### **SWK 219 Human Diversity**

Prerequisite: COM 115. 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. 3(3-0) F,S

### **SWK 222 Human Behavior and the Social Environment I**

Prerequisite: COM 115 and PSY 121 and SOC 150; and one of the following: BIO 102, BIO 121, BMS 100, BMS 105 or BMS 110; and SWK 212 or concurrent enrollment; and SWK 219 or concurrent enrollment. An introduction to the dynamics of human behavior and the effects of the social environment on the development of individuals and families. 3(3-0) F

### **SWK 300 Service Learning in Social Work**

Prerequisite: 30 hours and concurrent enrollment 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. Graded Pass/Not Pass only. 1(0-2) F,S

### **SWK 308 Social Justice**

Prerequisite: SWK 205 or concurrent enrollment; and SWK 212 or concurrent enrollment; and SWK 219 or concurrent enrollment; and SWK 222 or concurrent enrollment; and ECO 155 or ECO 165 or equivalent; and PLS 101; and Writing II or concurrent enrollment. 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. 3(3-0) F

### **SWK 309 Social Welfare Policy and Services I**

Prerequisite: SWK 205 or concurrent enrollment; and SWK 212 or concurrent enrollment; and SWK 219 or concurrent enrollment; and SWK 222 or concurrent enrollment; and SWK 308 or concurrent enrollment; and SWK 318 or concurrent enrollment; and SWK 322 or concurrent enrollment; and ECO 155 or ECO 165; and PLS 101; and Writing II or concurrent enrollment. 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. 3(3-0) S

### **SWK 318 Methods of Social Research in Social Work Practice**

Prerequisite: SWK 205 or concurrent enrollment; and SWK 212 or concurrent enrollment; and SWK 219 or concurrent enrollment; and SWK 222 or concurrent enrollment; and SWK 300 or concurrent enrollment; and SWK 308 or concurrent enrollment; and SWK 309 or concurrent enrollment; and SWK 322 or concurrent enrollment; and Writing II or concurrent enrollment; and one of the following statistics courses: SOC 302, PSY 200, AGR 330, MTH 340, QBA 237, REC 328, or concurrent enrollment. 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. 3(3-0) S

### **SWK 320 Services for Women**

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. 3(3-0) F

### **SWK 322 Human Behavior and the Social Environment II**

Prerequisite: SWK 205 or concurrent enrollment; and SWK 212 or concurrent enrollment; and SWK 219 or concurrent enrollment; and SWK 222 or concurrent enrollment; and SWK 308 or concurrent enrollment; and SWK 309 or concurrent enrollment; and SWK 318 or concurrent enrollment; and Writing II or concurrent enrollment. 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. 3(3-0), S

### **SWK 330 Substance Abuse Interventions**

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. 3(3-0) F

**SWK 365 Families in Later Life**

Prerequisite: PSY 121; and CFD 155 or CFD 163 or 30 hours. 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. Identical with CFD 365, GER 365, and PSY 366. Can only receive credit for one of the following: CFD 365, GER 365, PSY 366 or SWK 365. 3(3-0) F

**SWK 370 Child Welfare Services**

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. 3(3-0) F

**SWK 397 Special Topics**

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. 1-3 D

**SWK 405 Social Work Practice with Individuals**

Prerequisite: SWK 205 and SWK 212 and SWK 219 and SWK 222 and SWK 300 and SWK 308 and SWK 309 and SWK 318 and SWK 322; and SOC 302 or PSY 200; and PSY 304; and Writing II. 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. 3(3-0) F

**SWK 409 Social Welfare Policy and Services II**

Prerequisite: SWK 205 and SWK 212 and SWK 219 and SWK 222 and SWK 300 and SWK 308 and SWK 309 and SWK 318 and SWK 322 and Writing II; and admission into the BSW program. An introduction to the analytic, interactional, value clarification and political strategies necessary for policy analysis and implementation. 3(3-0) F

**SWK 420 Social Work Practice with Groups and Families**

Prerequisite: SWK 205 and SWK 212 and SWK 219 and SWK 222 and SWK 300 and SWK 308 and SWK 309 and SWK 318 and SWK 322; and Writing II; and 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. 3(3-0) F

**SWK 430 Social Work Practice in Communities and Organizations**

Prerequisite: SWK 205 and SWK 212 and SWK 219 and SWK 222 and SWK 300 and SWK 308 and SWK 309 and SWK 318 and SWK 322; and Writing II; and admission into the BSW program. Problem assessment and practice interventions with macrosystems. Examines strategies and techniques for social work practice with organizations and communities. 3(3-0) F

**SWK 470 Community Resources for Older Adults**

Prerequisite: PSY 121. 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. Identical with GER 470. Cannot receive credit for both SWK 470 and GER 470. 3(3-0) F

**SWK 480 Social Work Integrative Seminar**

Prerequisite: SWK 205 and SWK 212 and SWK 219 and SWK 222 and SWK 300 and SWK 308 and SWK 309 and SWK 318 and SWK 322 and SWK 405 and SWK 409 and SWK 420 and SWK 430; and admission to the BSW program; and concurrent enrollment in SWK 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. 3(3-0) S

**SWK 490 Practicum in Social Work**

Prerequisite: SWK 205 and SWK 212 and SWK 219 and SWK 222 and SWK 300 and SWK 308 and SWK 309 and SWK 318 and SWK 322 and SWK 405 and SWK 409 and SWK 420 and SWK 430; and admission into the BSW program; and concurrent enrollment in SWK 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. Supplemental course fee. Graded Pass/Not Pass only. 9(0-32) S

**SWK 496 Directed Readings in Social Work**

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. 1-3 D

**SWK 502 Rural Health**

Prerequisite: junior standing. 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. Identical with NUR 502. Cannot receive credit for both SWK 502 and NUR 502. May be taught concurrently with SWK 602. Cannot receive credit for both SWK 602 and SWK

502. 3(3-0) F,S

**SWK 597 Special Topics**

Prerequisite: junior standing. 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. May be taught concurrently with SWK 699. Cannot receive credit for both SWK 699 and SWK 597. 1-3 D

**SWK 598 Ethical Dimensions of Social Work**

Prerequisite: junior standing. Examines the ethical dimensions of social work in the context of ethical issues related to practice; including tensions intrinsic to the mission of social work, and examination of various philosophical frameworks and codes of ethics, analysis of larger systems that create and sanction specific values and ethics, legal issues, and decision-making strategies. May be taught concurrently with SWK 698. Cannot receive credit for both SWK 698 and SWK 598. 3(3-0) D

**SWK 599 Health Literacy in the Human Services**

Prerequisite: junior standing and permission of instructor. This online course offers an interdisciplinary approach to understanding functional health literacy and how the public's literacy skills affect interactions with health and human services professionals. Includes an examination of the data for national and international literacy levels and populations at risk for low literacy; research on health literacy; assessment tools; and practical techniques for addressing literacy issues in spoken and written communications at the practitioner and organizational levels. Identical with BMS 599. Cannot receive credit for both SWK 599 and BMS 599. May be taught concurrently with SWK 696. Cannot receive credit for both SWK 599/696 and BMS 599. 3(3-0) S

**SWK 602 Rural Health**

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. Identical with NUR 502. Cannot receive credit for both SWK 502 and NUR 502. May be taught concurrently with SWK 502. Cannot receive credit for both SWK 502 and SWK 602. 3(3-0), F,S

**SWK 696 Health Literacy in the Human Services**

Prerequisite: permission of instructor. This online course offers an interdisciplinary approach to understanding functional health literacy and how the public's literacy skills affect interactions with health and human services professionals. Includes an examination of the data for national and international literacy levels and populations at risk for low literacy; research on health literacy; assessment tools; and practical techniques for addressing literacy issues in spoken and written communications at the practitioner and organizational levels. May be taught concurrently with SWK 696. Cannot receive credit for both SWK 696 and SWK 599. 3(3-0) S

**SWK 698 Ethical Dimensions of Social Work**

Examines the ethical dimensions of social work in the context of ethical issues related to practice; including tensions intrinsic to the mission of social work, and examination of various philosophical frameworks and codes of ethics, analysis of larger systems that create and sanction specific values and ethics, legal issues, and decision-making strategies. May be taught concurrently with SWK 598. Cannot receive credit for both SWK 598 and SWK 698. 3(3-0), D

**SWK 699 Special Topics**

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. May be taught concurrently with SWK 597. Cannot receive credit for both SWK 597 and SWK 699. 1-3, D

**SWK 705 Human Behavior and Social Environment**

Content on life span development and the influence of various systems on the individual. 3(3-0), F

**SWK 710 Social Work Practice I**

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. 3(3-0), F

**SWK 715 Social Welfare Policy and Services**

Prerequisite: SWK 705 or concurrent enrollment; and SWK 710 or concurrent enrollment; and SWK 725 or concurrent enrollment. 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. 3(3-0), F

**SWK 725 Social Work Practice II**

Prerequisite: SWK 705 and SWK 710. 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. 3(3-0), F

**SWK 726 Social Work Practice III**

Prerequisite: SWK 705 and SWK 710 and SWK 725. 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. 3(3-0), S

**SWK 730 Human Diversity and Societal Systems**

Theoretical perspectives and research findings on various populations at risk and the role of societal institutions in perpetuating social and economic injustice. 3(3-0), S

**SWK 740 Social Work Field Practicum I**

Prerequisite: Admission to program. Supervised social work experience in a social agency in the community with accompanying field instructional seminar. Seminar enhances student's integration of coursework learning practice and skills; examines student

experiences in field agency. Students must complete 450 hours in placement; practicum liability insurance fee required. 3-10 S

**SWK 741 Family Health and Family Violence**

Enhances students' understanding of the theories, policies, practices, and interventions related to family violence. 3(3-0), D

**SWK 742 Family Health and Substance Abuse**

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. 3(3-0), D

**SWK 743 Management and Program Development in Human Service**

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. 3(3-0), D

**SWK 746 Foundations in Social Work Research**

Prerequisite: admission to program or departmental approval. Teaches foundational knowledge and skills in key social work research methods; reviews research concepts and tools most frequently encountered by the family-focused social work practitioner. 3(3-0), Su

**SWK 750 Human Behavior and Family Systems**

Prerequisite: advanced standing or SWK 705 and SWK 710 and SWK 715 and SWK 720 and SWK 725 and SWK 726 and SWK 730 and SWK 735 and SWK 740. Provides a framework for understanding family systems and family health. The family is examined within an ecosystem context. 3(3-0), F,Su

**SWK 754 Perspectives on Individual and Family Health Assessment**

Prerequisite: advanced standing or SWK 705 and SWK 710 and SWK 715 and SWK 720 and SWK 725 and SWK 726 and SWK 730 and SWK 735 and SWK 740. Advanced overview to help the student transition from individually-focused assessment (e.g., DSM-IV) to family focused assessment (e.g., FAD). 3(3-0), F

**SWK 755 Family Health Social Work Practice I**

Prerequisite: advanced standing or SWK 705 and SWK 710 and SWK 715 and SWK 720 and SWK 725 and SWK 726 and SWK 730 and SWK 735 and SWK 740. Knowledge and skills for advanced practice. Social work roles within different settings will be covered. 3(3-0), F

**SWK 756 Family Health Social Work Practice II**

Prerequisite: SWK 705 and SWK 710 and SWK 715 and SWK 720 and SWK 725 and SWK 726 and SWK 730 and SWK 735 and SWK 740 and SWK 750 and SWK 754 and SWK 755. Advanced assessment and family centered practice interventions that are related to the family health perspective. 3(3-0), S

**SWK 760 Family Health Policy**

Prerequisite: SWK 705 and SWK 710 and SWK 715 and SWK 720 and SWK 725 and SWK 726 and SWK 730 and SWK 735 and SWK 740. 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. 3(3-0), F

**SWK 780 Social Work Field Practicum II**

Prerequisite: admission to program. Supervised social work experience in a social agency in the community with accompanying field instructional seminar. Seminar enhances student's integration of coursework learning and practice skills; examines student experiences in field agency. Students must complete 525 hours in placement; practicum liability insurance fee required. Supplemental course fee. 3-10, S

**SWK 797 Applications in Social Work Research**

Prerequisite: admission to program or departmental approval. Teaches advanced knowledge and skills in key social work research methods; reviews key research applications in social work practice settings, including evaluation of practice and program evaluation. Integration between research projects and student's professional interests in the field are encouraged. 3(3-0), F

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Health and Human Services > Department of Sports Medicine and Athletic Training

## Department of Sports Medicine and Athletic Training

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Email: [SportsMedicine@missouristate.edu](mailto:SportsMedicine@missouristate.edu)  
Website: <http://sportsmed.missouristate.edu/>  
Department Head: Associate Professor Tona Hetzler, Ed.D.

### Faculty (as of July 15, 2011)

**Assistant Professors:** Michael B. Hudson, Ph.D.; Gary L. Ward, M.S.

**Clinical Assistant Professor:** Allan J. Liggett, M.E.Ed.

**Medical Director:** Richard A. Seagrave, M.D.

**Medical Advisors:** Bernard A. Griesemer, M.D.; Brian J. Mahaffey, M.D.

### Accreditation

Commission on Accreditation of Athletic Training Education (CAATE) — Athletic Training (BSAT)

### Majors

#### Athletic Training (Comprehensive)

Bachelor of Science in Athletic Training

The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

The admission process for the Athletic Training Education Program (ATEP) is separate from the application process for admission to the University. Students do not officially apply for admission into the ATEP until they have met all preadmission criteria (typically takes one year to complete). Admission to the ATEP is competitive and not all who apply can be accommodated. Once admitted into the ATEP, students must maintain retention criteria to remain in and process through the program.

#### Incoming Freshman and Current Missouri State Students

Incoming freshman and current Missouri State University students interested in applying for the Athletic Training major are required to complete the ATEP Interest Form. Students are encouraged to initially declare a pre-sports medicine/Athletic Training major or a Sports Medicine minor. Students will make formal application to the Athletic Training major once they have completed the requirements for consideration into the Athletic Training major. To complete the Athletic Training major, students must complete the three year course and clinical sequence after formal admission into the program.

#### Transfer Students

Transfer students need to speak to the Athletic Training Education Program Director regarding their admission into the Athletic Training major. It is in the student's best interest to discuss their options with the Program Director at least one semester prior to transferring into the program. Transfer students are required to complete the ATEP Interest Form (found on SMAT web page <http://sportsmed.missouristate.edu/73074.htm>).

#### Preadmission Requirements (A.K.A. First Year Experience)

Before a student can be considered for the Athletic Training major, the following application requirements must be met:

- A. Admission to Missouri State University and/or student in good academic standing at MSU
- B. Successful completion of the following courses; ATC 220 and ATC 221 ("B" or better); BMS 110 or BIO 121 ("C" or better); and CHM 105 or both CHM 160 and 161 ("C" or better); and BMS 307 ("C" or better). If offered, a student can take one or more of these courses in the summer session prior to the fall semester they are applying and still be considered for admission to the major (as program spots allow). Preferred courses: GEP 101, COM 115, CIS/CSC 101 or CSC 111, ENG 110, MTH 135 or higher.
- C. Observational hours with a program approved allied health care professional
- D. ATEP Application - completed during spring semester of the first year experience.

#### A. Selection Process for the Athletic Training major:

1. All applicants will be ranked using a numerical scale on the following criteria:
  - a. Cumulative high school and college GPA (4.00 point scale)
  - b. GPA in sciences and sports medicine related coursework (4.00 point scale)
  - c. ACT score
  - d. Athletic training/sports medicine experience (evaluation provided by the allied health care professional supervising

- the required observation hours; student may also include additional experiences (i.e. high school) for review
- e. Strength of applicant's knowledge of AT profession and career goals reflected in narrative
  - f. Extracurricular and leadership activities
  - g. Strength of support from others as shown in recommendations
2. Students receiving the highest scores in the rating process and a positive recommendation from the selection committee will be formally admitted into the major. The total number of students admitted into the program will be determined by the number of clinical placement sites available to the program.
  3. Applicants not formally admitted may reapply the following year. All applicants who reapply must meet all requirements in effect at the time of application. Students are encouraged to contact the department for current admission requirements.
  4. All students selected for formal admission must provide evidence of being able to meet the technical standards of the program with or without reasonable accommodations. The technical standards for the program are included in the application material.
  5. Upon notification of formal admission into the Athletic Training major, students will be required to initiate and pay for any security checks and drug screenings required for clinical agencies. All admitted students must complete 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 prior to begin allowed to begin any clinical rotations.
  6. All students are expected to provide their own transportation to clinical sites.
  7. All students will be required to purchase student professional liability insurance.
- B. Progression and Retention Requirements:
1. After students are selected into the Athletic Training major, retention in the program will be based on the following criteria:
    - a. Satisfactory clinical evaluation score (more details are provided on each practicum course syllabi) for each clinical assignment. Clinical performance is critiqued by the ACI's on areas involving both "Universal Traits" and "AT Skills."
    - b. Maintain a major coursework GPA of 3.00 on all ATC courses.
    - c. Semester GPA of 2.80 or higher and a cumulative University GPA of 2.80 or higher.
  2. Students who fail to meet all of the retention requirements may be placed on probation in the Athletic Training major for one semester. If standards are not met by the end of the probationary period, the student may 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 progress in the program and 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.

#### **Athletic Training Program Requirements**

Students selected for the program must complete all required coursework and clinical requirements. Those requirements include the following:

- A. General Education Requirements - see **General Education Program and Requirements** section of catalog  
Specific General Education Requirements BIO 121(4) or BMS 110(4); CHM 105(5) or both CHM 160(4) and 161(1); MTH 135(3) or higher; PSY 121(3)
- B. Major Requirements
  1. Related Requirements: BMS 240(3), 307(4), 308(4), 430(3); 450(3), 567(4); PSY 200(3)
  2. Athletic Training Requirements: ATC 220(2), 221(2), 224(4), 240(2), 241(2), 320(3), 324(4), 326(3), 328(4), 329(4), 332(2), 340(2), 341(2), 344(4), 354(4), 420(3), 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 satisfactory clinical evaluation score for each experience. All students will be required to complete the following clinical experiences:
    - a. One fall pre-season experience
    - b. One fall season of interscholastic or intercollegiate football
    - c. At least one (two preferred) semester assigned to University intercollegiate team experiences
    - d. At least one (two preferred) semester at an affiliated sports medicine clinic
    - e. At least one (two preferred) semester at an affiliated high school
    - f. Two semesters of integrated "General Medical/Sports Medicine" clinical experiences.
- C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

## **Minors**

### **Sports Medicine**

Bachelor of Applied Science  
Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Music  
Bachelor of Music Education  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)  
Bachelor of Science in Nursing  
Bachelor of Social Work



- A. Complete the following courses (6-8 hours): ATC 220(2), 221(2); ATC 222(2) or 224(4)
- B. Complete additional courses from the following to bring total hours in the minor to at least 18 hours: ATC 320(3), 326(3), 328(4), 329(4), 332(2), 344(4), 354(4), 420(3), 425(2)

## Athletic Training Courses

### ATC 220 Introduction to Athletic Training

Orientation for students considering a career in Athletic Training or related sports medicine field. Various aspects of the Athletic Training and related sports medicine professions and the Athletic Training program at Missouri State are discussed. Supplemental course fee. 2(2-0) F,S,Su

### ATC 221 Clinical Skills in Athletic Training

Prerequisite: ATC 220 or concurrent enrollment; and permission of program director. Students are introduced to many of the emergency management and clinical skills required by athletic trainers and other allied health care professionals in a variety of clinical settings. Supplemental course fee. 2(0-4) S,Su

### ATC 222 Athletic Injuries

Prerequisite: PED 250 or BMS 307. Techniques, principles and theory underlying prevention and care of athletic injuries. Supplemental course fee. 2(2-1) F,S

### ATC 224 Basic Athletic Training/Sports Medicine Techniques

Prerequisite: ATC 221 and BMS 307 (or concurrent enrollment with permission of program director). Procedures, techniques, principles and theory relative to development of essential cognitive and psychomotor competencies commonly used in athletic training. Supplemental course fee. 4(3-3) F

### ATC 240 Clinical Practicum I

Prerequisite: ATC 221 and permission of program director. Supervised clinical experiences in athletic training. 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. Supplemental course fee. 2(1-2) F

### ATC 241 Clinical Practicum II

Prerequisite: ATC 221 and ATC 240 and permission of program director. Continuation of supervised clinical experiences in athletic training. 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. Supplemental course fee. 2(1-2) S

### ATC 297 Special Topics

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. 1-2 D

### ATC 320 Athletic Training Administration

Prerequisite: at least 75 hours towards Athletic Training major completed or at least 15 hours towards Sports Medicine minor completed; and permission of program director. Development and administration of current theories, methods and techniques related to the organization and administration of athletic training programs. Integration of leadership behaviors into the practice and management of athletic training practice areas such as program management, budget, insurance, facility design, legal issues, global issues, and ethics in the profession of athletic training will be discussed. 3(3-0) F

### ATC 324 Therapeutic Modalities

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 injuries, including ultrasound, diathermy, electrical stimulation, hydrotherapy, cryotherapy, and thermotherapy. Supplemental course fee. 4(3-2) S

### ATC 326 Therapeutic Interventions in Athletic Training

Prerequisite: ATC 222 or ATC 224; and BMS 308 and 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. 3(3-0) F,S,Su

### ATC 328 Lower Body Assessment

Prerequisite: ATC 221; and BMS 307 with grade of "C" or better; and BMS 450. Content addresses observation and evaluation techniques for injuries to the lower body. Students must integrate anatomical structures to provide a basis for critical decision making in an injury management environment. Supplemental course fee. 4(3-2) F

### ATC 329 Upper Body Assessment

Prerequisite: ATC 328. Content addresses observation and evaluation techniques for injuries to the upper body. Students must integrate anatomical structures to provide a basis for critical decision making in an injury management environment. Supplemental course fee. 4(3-2) S

### ATC 332 Research Methods in Athletic Training

Prerequisite: PSY 200; and at least 60 hours completed towards Athletic Training major or 12 hours toward Sports Medicine minor; and permission of program director. Interactive study of importance and process of conducting ethical research in athletic training and the healthcare professions. Emphasis placed on research design, ethics, collection of data, and the dissemination of results. 2(2-0) F,S

### ATC 340 Clinical Practicum III

Prerequisite: ATC 241 and permission of program director. Continuation of supervised clinical experiences in athletic training. 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. Supplemental course fee. 2(1-2) F

**ATC 341 Clinical Practicum IV**

Prerequisite: ATC 340 and permission of program director. Continuation of supervised clinical experiences in athletic training. 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. Supplemental course fee. 2(1-2) S

**ATC 344 Foundations of Rehabilitation**

Prerequisite: ATC 328 and BMS 450. Content addresses basic concepts, foundations and principles of musculoskeletal rehabilitation relating to the body. Orthopedic surgical procedures of the body common in athletic training with a focus primarily on joint and musculoskeletal structures, tissue pathology for each protocol, healing constraints, and implications for rehabilitation will also be presented. Supplemental course fee. 4(3-2) F

**ATC 354 Clinical Applications of Rehabilitation**

Prerequisite: ATC 344. Applied study of advanced principles of musculoskeletal rehabilitation. Course will focus on clinical decision making as it relates to rehabilitation progression, exercise selection, reconditioning, return to activity and other relative aspects of the rehabilitation process. Supplemental course fee. 4(2-4) S

**ATC 397 Special Topics**

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. 1-2 D

**ATC 420 Medical Aspects of Athletic Training**

Prerequisite: BMS 308 with grade of "C" or better; and 60 hours; and permission of program director. Students are exposed to various medical specialties which contribute to an understanding of comprehensive 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. 3(3-0) S

**ATC 425 Contemporary Topics in Athletic Training**

Prerequisite: at least 75 hours towards Athletic Training major completed or at least 15 hours toward Sports Medicine minor completed; and permission of program director. Discussion of current issues and problems facing the athletic training profession. Supplemental course fee. 2(2-0) S

**ATC 440 Clinical Practicum V**

Prerequisite: ATC 341 and permission of program director. Continuation of supervised clinical experiences in athletic training. 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. Supplemental course fee. 2(1-2) F

**ATC 441 Clinical Practicum VI**

Prerequisite: ATC 440 and permission of program director. Continuation of supervised clinical experiences in athletic training. 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. Supplemental course fee. 2(1-2) S

**ATC 497 Athletic Training Seminar**

Prerequisite: ATC 221 and ATC 222; 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. 1-3 F,S

**ATC 498 Research Projects in Athletic Training**

Prerequisite: ATC 332 and PSY 200; 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 once for a maximum of 6 hours. 1-3 F,S

**ATC 499 Independent Study in Athletic Training**

Prerequisite: ATC 221 and ATC 222; 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. 1-3 F,S,Su

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Humanities and Public Affairs

## College of Humanities and Public Affairs

Dean: Professor Victor H. Matthews, Ph.D.

Associate Dean: Professor Pamela R. Sailors, Ph.D.

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### Academic Units

- [Area Studies Programs](#)
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- [Department of Defense and Strategic Studies](#)
- [Department of Economics](#)
- [Department of History](#)
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- [Department of Philosophy](#)
- [Department of Political Science](#)
- [Department of Religious Studies](#)
- [Department of Sociology and Anthropology](#)

### 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. The Bureau was established in 1971.

#### **Bernice Warren 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.

#### **Center for Social Sciences and Public Policy Research (CSSPPR)**

The Center 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.)

#### **Graduate Program**

University Certificate (Graduate): A graduate level certificate program is available in Homeland Security and Defense. Refer to the Graduate Catalog for more information.

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## Area Studies Programs

Strong Hall, Room 207, Phone: (417) 836-5529, Fax: (417) 836-8472  
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Website: <http://www.missouristate.edu/chpa>  
Administrator: Professor Pamela R. Sailors, Ph.D.

### General Information

A variety of interdisciplinary programs and courses are offered outside of the standard academic departments. Each program is governed by a faculty committee that is responsible for course and program content.

The following programs are offered: African American Studies, Asian Studies, Gender Studies, Latin American Studies, Law and Society, Middle Eastern Studies, Native American Studies, and Ozarks Studies. Courses are offered in African American Studies (AAS), Gender Studies (GST), and Ozarks Studies (OZK).

### Minors

#### African American Studies

Bachelor of Arts  
Bachelor of Science  
Bachelor of Social Work

**Administration of the program.** Courses must be approved by the faculty of the African 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 an African American Studies minor.

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. It is recommended that AAS 100 be taken prior to undertaking all other courses included as options in the African American Studies minor.

A student cannot take more than six 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 topics course to the minor, with the approval of the Administrator. Such variable content/special topics courses might include: AAS 397, 497; ANT 330; or REL 397.

- A. AAS 100(3)
- B. Complete three hours in each area:
  - 1. Historical Foundations: HST 331(3), 332(3)
  - 2. Pan-African Background and Perspectives: ENG 363(3); GRY 507(3); HST 323(3), 335(3); PLS 550(3)
  - 3. Arts and Humanities: ART 273(3); ENG 355(3), 455(3); REL 365(3)
  - 4. Politics and Society: CRM 415(3); HST 531(3); REL 345(3); SOC 336(3); SWK 219(3)
- C. Attain a minimum GPA of 2.50 in all courses counted toward the minor.

#### Asian Studies

Bachelor of Arts  
Bachelor of Science

**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.

- A. Six hours of an Asian language, the University currently offers Chinese (CHI 101(3), 102(3), 201(3), 202(3)) and Japanese (JPN 101(3), 102(3), 201(3), 202(3))
  - B. Complete 12 hours from the following areas, with no more than six hours from any one category:
    - 1. HST 380(3), 381(3), 571(3)
    - 2. REL 210(3), 355(3), 360(3)
    - 3. ART 274(3), 374(3); ENG 362(3)\*; LLT 215(3); MUS 239(3)\*; PHI 314(3)
    - 4. ECO 345(3); GRY 305(3)\*; PLS 545(3)
- \*when applicable

#### Gender Studies

Bachelor of Arts  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)  
Bachelor of Science in Nursing  
Bachelor of Social Work

**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.

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(3) or PSY 355(3) or PSY 356(3) or SOC 290(3)
- B. Complete 15 hours from the following areas with at least three hours from each area and no more than six hours from each discipline (course prefix):
  1. Arts and Letters: ART 378(3); COM 307(3); ENG 380(3), 580(3)
  2. Humanities and Public Affairs: CRM 410(3); ECO 315(3) or GST 315(3); GST 400(3); HST 323(3), 324(3); PHI 319(3); PLS 319(3), 517(3); REL 370(3); SOC 326(3), 337(3)
  3. Health and Human Services: FCS 300(3); GER 320(3); NUR 327(3); PED 402(3), 405(3); PSY 307(3), 355(3), 356(3); SWK 320(3)
- C. Attain a minimum GPA of 2.50 in all courses counted toward the minor.

### Latin American Studies

Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Science  
Bachelor of Social Work

**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.

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 student cannot take more than six hours in a particular discipline to complete the minor; exceptions must have permission of the Administrator.

- A. Complete six hours of a Latin American language: Portuguese (PTG 101(3), 102(3), 201(3), 202(3)) or Spanish (SPN 101(3), 102(3), 201(3), 202(3))
- B. Complete 12 hours from the following areas including at least three hours from at least three of the following areas, and no more than six hours from any one category:
  1. Historical Studies: HST 350(3), 397(3)\*, 492(3)\*, 587(3), 588(3)
  2. Geography and Politics: GRY 305(3)\*; PLS 338(3)\*, 548(3)
  3. Art, Culture, Religion, and Society: ANT 330(3)\*, 331(3); ART 273(3), 385(3), 485(3), 496(3)\*, 598(3)\*; REL 397(3)\*; SOC 336(3)
  4. Language and Literature: ENG 354(3)\*, 362(3)\*; LLT 197(3)\*, 296(3)\*; PTG 297(3)\*; SPN 297(3)\*, 320(3), 325(3), 326(3), 415(3)

\*when applicable – A student can petition to apply a variable content/special topic course to the minor, upon approval of the Administrator a maximum of three hours of these variable content/special courses may be used.

### Law and Society, The

Bachelor of Arts  
Bachelor of Science

**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.

The Law and Society Minor is a 21-hour program of study with nine credit hours required in the core and an additional 12 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) or PHI 341(3); and PLS 515(3) or 517(3)
- B. Complete 12 hours from: AGB 314(3); ECO 435(3); JRN 407(3); LAW 231(3), 537(3); PHI 345(3); PLN 570(3); CRM 210(3) or PLS 451(3) or PSY 320(3)

### Middle Eastern Studies

Bachelor of Arts  
Bachelor of Science

**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.

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(3) and HST 371; or PLS 544(3)
- B. Complete 12 hours from the following areas, with no more than six hours from any one category:
  - 1. HST 372(3), HST 543(3)
  - 2. REL 330(3), REL 350(3), REL 397(3)\*, ART 382(3)
  - 3. ARB 101(3), 102(3), 201(3), 202(3); HBW 101(3), HBW 102(3), HBW 201(3), HBW 202(3); LLT 197(3)\*
  - 4. GRY 305(3)\*, PLS 546(3), ANT 335(3), SOC 397(3)\*

\*when applicable

#### Native American Studies

Bachelor of Arts  
 Bachelor of Fine Arts  
 Bachelor of Science

**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.

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(3), ANT 330(3)\*, ANT 360(3), ANT 451(3)\*, ANT 490(3)\*, ANT 525(3), ART 273(3), ART 385(3), ART 485(3), ART 496(3)\*, ENG 354(3)\*, GRY 305(3)\*, GRY 597(3)\*, HST 397(3)\*, HST 509(3), HST 510(3), REL 315(3).
- \*when applicable
- B. Other courses (e.g., special topics, transfer) may be applied with the approval of the Administrator.

#### Ozarks Studies

Bachelor of Arts  
 Bachelor of Fine Arts  
 Bachelor of Science

**Administration of the program.** Elective courses must be approved by the faculty of the Ozarks 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 Ozarks Studies minor.

The Ozarks Studies Program is an interdisciplinary minor course of study allowing students to concentrate on the geography, history, literature, and cultures of the Ozarks. The minor provides students with an understanding and appreciation of the environment and cultures of the Ozarks region, past and present. It will stimulate awareness of the region's contrasts with and similarities to other American geographical and cultural regions as well as an appreciation for the region's place within the greater United States. This knowledge and experience is valuable in number of contexts. For students from the Ozarks region, the minor in Ozarks Studies serves as an extended study of personal and regional heritage. For students who will remain in the region for work and careers, the minor offers an invaluable primer for understanding regional heritage, cultures, and the natural environment. For all students the minor provides a solid academic exercise in comparative regional study.

The minor includes OZK 150 and HST 375, plus at least 12 hours of additional coursework for a minimum of 18 hours. It is recommended that OZK 150 be taken prior to other required and elective courses in the minor.

A student can take no more than six hours in a particular discipline to complete the minor; exceptions must have the permission of the Administrator. A student can petition to apply to the minor variable content/special topics courses that focus on the Ozarks, with the approval of the Administration. These include: ANT 397, BIO 597, PLS 497, REL 397, and SOC 397.

- A. Required Courses (6 hours): OZK 150(3); HST 375(3)
- B. Complete 12 additional hours from: ANT 397(3)\*; BIO 597(3)\*, ENG 385(3), ENG 386(3), GRY 301(3), GRY 310(3) or REC 320(3), OZK 300(3)\*, PLS 497(3)\*, REL 531(3), SOC 397(3)\*
- \*when applicable

#### African American Studies Courses

##### AAS 100 Introduction to African American Studies

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F,S

##### AAS 397 Topics in African American Studies

Prerequisite: permission. 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. 1-3 D

**AAS 497 Directed Reading**

Prerequisite: 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. 1-3 D

## Gender Studies Courses

**GST 170 Sex, Gender, and Self**

General Education Course (Self-Understanding/Social-Behavioral Perspective). 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. 3(3-0) F,S

**GST 315 The Economics of Gender**

Prerequisite: ECO 165. 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. Identical with ECO 315. Cannot receive credit for both GST 315 and ECO 315. 3(3-0) D

**GST 326 Feminist Theories of Social Order**

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. Identical with SOC 326. Cannot receive credit for both GST 326 and SOC 326. 3(3-0) S

**GST 400 Gender in Global Community**

Prerequisite: SOC 150 or GST 170. 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. 3(3-0) F

**GST 497 Special Topics in Gender Studies**

Prerequisite: permission. In-depth inquiry into selected topics of Gender Studies. May be repeated to a maximum of 6 hours if the topic is different. 1-3 F,S

## Ozarks Studies Courses

**OZK 150 Introduction to Ozarks Studies**

This course provides a multidisciplinary introduction to the study of the Ozarks region and its inhabitants, including Ozarks history and geography, regional folk culture and traditions, and current issues. 3(3-0) S

**OZK 300 Topics in Ozarks Studies**

In-depth inquiry into topics in Ozarks Studies. May be repeated to a maximum of six hours if the topic is different. 1-3, D

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## Department of Criminology and Criminal Justice

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Email: [criminology@missouristate.edu](mailto:criminology@missouristate.edu)  
Website: <http://criminology.missouristate.edu>  
Department Head: Professor Craig T. Hemmens, J.D., Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Bernard J. McCarthy, Ph.D.; Mary K. Stohr, Ph.D.

**Associate Professors:** Brett E. Garland, Ph.D.; Patrick R. Gartin, Ph.D.; Patti R. Salinas, Ph.D.

**Assistant Professor:** Aida Y. Hass, Ph.D.

**Senior Instructors:** Ivy Yarcow-Brown, M.S.; Diane M. Leamy, M.S.

**Instructor:** Paula K. Rector, M.S.

**Emeritus Professors:** Michael K. Carlie, Ph.D.; Melody G. Lehnerer, Ph.D.

### Graduate Programs

The following graduate programs are available:

Criminology (Master of Science)

Refer to the [Graduate Catalog](#) for more information.

Courses are offered toward the options in Criminal Justice and in Homeland Security within the Master of Science degree in Administrative Studies and the graduate certificate in Homeland Security and Defense. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Science in Criminology

Eligible Missouri State undergraduate majors in Criminology may apply for preliminary acceptance into the Master of Science program in Criminology after admission requirements for the accelerated master's option have been satisfied. This option allows a student to take up to 12 hours of graduate credit counting toward both the requirements for the Bachelor's and Master's degrees in Criminology (Mixed Credit). However, only six of these hours may count as electives in the criminology undergraduate program, with the remaining six hours counting as free electives toward the 125 credit hours required for the undergraduate degree.

If accepted, it is possible for a student to earn the Master of Science in Criminology by taking an additional two semesters and one summer beyond the completion of the Bachelor's degree, accumulating 143 total credit hours as opposed to the 155 required for students not in the accelerated program, assuming the student selects the thesis option. If the student elects the non-thesis option, they must complete at least 149 total hours as opposed to the 161 required for students not in the accelerated program. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Majors

#### Criminology (Non-Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (36 hours)
  1. Required Core (21 hours): [CRM 210\(3\)](#), [320\(3\)](#), [340\(3\)](#), [350\(3\)](#), [360\(3\)](#), [370\(3\)](#), [598\(3\)](#)
  2. Complete 15 additional hours in CRM courses
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

#### Criminology (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog



- B. Major Requirements (36 hours)
  - 1. Required Core (21 hours): CRM 210(3), 320(3), 340(3), 350(3), 360(3), 370(3), 598(3)
  - 2. Complete 15 additional hours in CRM courses
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### 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.

## Criminology Courses

### CRM 210 Introduction to the American Criminal Justice System

An overview of the American criminal justice system, its functions, problems and potential solutions. 3(3-0) F,S

### CRM 215 Career Preparation in Criminology and Criminal Justice

Acquaint students with the types of job opportunities available in the field of criminology and criminal justice including required credentials, career preparation, and the job search process. Opportunities for graduate study, along with the process of applying for more advanced education, also are discussed. 1(1-0) D

### CRM 300 Service Learning in Criminology

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. 1 D

### CRM 301 Crime and the Media

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. Solutions to problems created by the media are also discussed. 1(1-0) D

### CRM 302 Reforming America's Prisons

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. 1(1-0) D

### CRM 303 Capital Punishment

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. 1(1-0) D

### CRM 304 Sex Crimes

This course highlights sex offenses, sex offenders, victims of sex offenses and a variety of responses to sexual offending patterns. Definition of different sex crimes will be discussed, along with an examination of the violence involved and policies geared towards these types of offenses. Methods of working with sex offenders in rehabilitative efforts are also discussed. 1(1-0) D

### CRM 305 Serial Killers

This course provides education and knowledge about serial killers, highlighting a few of the most notorious serial killers in the United States. Definitions of serial killing, an examination of serial killing typologies, root causes of serial killing, and the patterns of serial killers are examined. 1(1-0), D

### CRM 320 The Causes of Delinquency and Crime

Prerequisite: CRM 210. Examines the nature and dimensions of juvenile delinquency and adult criminality. Historical and contemporary theories of crime and delinquency are reviewed as are possible solutions to the forces which may generate delinquent and criminal behavior. 3(3-0) F,S

### CRM 330 Delinquency and the Juvenile Justice System

Prerequisite: CRM 210. 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. Identical with SOC 331. Cannot receive credit for both CRM 330 and SOC 331. 3(3-0) S

### CRM 335 Criminal Typologies

Prerequisite: CRM 210. This course is designed to examine the nature and extent of criminal behavior. Students will explore

patterns of offender behavior including crimes against the person, interpersonal violence, property crimes, white collar and organized crime, public order crimes and political crimes. 3(3-0) D

**CRM 340 Research Methods in Criminology and Criminal Justice**

Prerequisite: CRM 210 and CRM 320. An overview of research design and data interpretation as applied to research on crime and justice. Topics include hypothesis formulation, sampling techniques, survey construction, field observation, and evaluation research. 3(3-0) F,S

**CRM 350 The Police in American Society**

Prerequisite: CRM 210. In this course students learn about the history, structure and function of law enforcement as a means of addressing behavior which violates the law. Problems faced by law enforcement and solutions to those problems are also discussed. 3(3-0) F,S

**CRM 360 Criminal Law and the Courts**

Prerequisite: CRM 210. This course examines the nature and development of criminal law along with the principles, processes, and structures found in adult criminal courts. Studies of courtroom personnel as well as contemporary criminological issues involving the courts are also examined as are their possible solution. 3(3-0) F, S

**CRM 370 Institutional and Community-Based Corrections**

Prerequisite: CRM 210. 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. Problems in the field of corrections and related solutions are also examined. 3(3-0) F,S

**CRM 396 Directed Readings in Criminology**

Prerequisite: CRM 210 and permission of 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. 1-3 D

**CRM 397 Special Topics in Criminology**

A variable topic course offering an overview of one or more issues related to criminology. May be repeated when topic changes. 1-3 D

**CRM 410 Crime, Justice, and Gender**

Prerequisite: CRM 210 and CRM 320. 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. Possible solutions to the problems identified in the course are also explored. 3(3-0) F

**CRM 415 Crime, Class, Race, and Justice**

Prerequisite: CRM 210 and CRM 320. 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. 3(3-0) S

**CRM 420 Comparative Criminal Justice Systems**

Prerequisite: CRM 210 and CRM 320. 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. 3(3-0) D

**CRM 430 Victimless Crime**

Prerequisite: CRM 210 and CRM 320. A sociological examination of attempts to legally control private behavior covering both historical and contemporary examples such as prostitution, drug use, homosexuality, and abortion. 3(3-0) F,S

**CRM 440 Foundations of Homeland Defense and Security**

This course provides an overview of homeland security and defense undertaken in the United States since September 11, 2001. The course provides students with the generally accepted knowledge required of homeland security professionals. 3(3-0) D

**CRM 480 The Gang Phenomenon**

Prerequisite: CRM 210 and CRM 320. In this course students explore the history of the gang phenomenon, the variety and types of gangs, reasons why gangs form, their structure, the functions they serve for their members and the social policies which have been developed to deal with gangs. Solutions to the gang phenomenon are also investigated. 3(3-0) F

**CRM 485 Drugs in Society**

Prerequisite: CRM 210 and CRM 320. An important social problem facing our society today is that of drug use/abuse. This problem cuts across all cultures, as well as across social class, sex, and racial groups. It affects the economy of the country as well as the image we, as a nation, project to other peoples. It is a political issue of not just national, but also international proportions. In order to understand this problem better, this course attempts to place "drugs" in a sociological perspective and through using the sociological imagination. Solutions to the drug problem are also considered. 3(3-0) D

**CRM 490 Internship in Criminology**

Prerequisite: Criminology major, completion of 18 hours in the CRM major program, 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 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. 3 F,S

**CRM 497 Special Issues in Criminology**

Prerequisite: CRM 210 and permission of 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. 1-3 D

**CRM 597 Special Topics and Issues in Criminal Justice**

Prerequisite: permission of 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. May be taught concurrently with CRM 697. Cannot receive credit for both CRM 697 and CRM 597. 1-3 D

**CRM 598 Senior Seminar in Criminology**

Prerequisite: Criminology major; and senior standing. 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. 3(3-0) F,S

**CRM 697 Special Topics and Issues in Criminal Justice**

Prerequisite: permission of 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. May be taught concurrently with CRM 597. Cannot receive credit for both CRM 597 and CRM 697 unless topic changes. 1-3 D

**CRM 706 Advanced Research Methods in Criminology and Criminal Justice**

Prerequisite: admission to the MS in Criminology or the MS in Administrative Studies with the Criminal Justice Option. This course is an in-depth examination of issues and methods involved with gathering data for research in crime and justice. Topics include research design, measurement, sampling, and analysis techniques. 3(3-0) F

**CRM 707 Quantitative Methods in Criminology and Criminal Justice**

Prerequisite: CRM 706; and admission to the MS in Criminology or the MS in Administrative Studies with the Criminal Justice option. This course provides an introduction to statistical analysis and examines the many applications of statistics to research on crime and justice. Special attention is given to organizing and interpreting data through appropriate statistical software. 3(3-0) S

**CRM 710 Justice Administration**

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. 3(3-0) SO

**CRM 720 Crime Theory and Policy**

Prerequisite: admission to the MS in Criminology or MS in Administrative Studies with the Criminal Justice option. The course surveys various classical and contemporary theories of lawbreaking from a community-level sociological perspective. The relationship between criminological theory and justice system policy is emphasized. 3(3-0) F

**CRM 725 Evaluating Criminal Justice Policy and Practice**

Prerequisite: CRM 706. Covers methodological and technical approaches used to evaluate programs in criminal justice. Included are ethnographic techniques, unobtrusive research, secondary data sources, survey methods, and field experiments. Students acquire proficiency in understanding questions being posed about programs and developing appropriate research designs and strategies for providing answers to these questions. Emphasis is placed on graphic, text and oral presentation of reports. 3(3-0) D

**CRM 735 Historical and Cross-Cultural Comparative Criminology**

Provides an overview of crime and punishment with emphasis on the origin and evaluation of basic theories of crime-causation and community response as they arose in the 19th and 20th centuries. Coupled with this emphasis is a cross-cultural comparative view involving the systematic study of crime, law, and social control outside the United States. 3(3-0) D

**CRM 740 Foundations of Homeland Defense and Security**

This course provides an overview of homeland security and defense undertaken in the United States since September 11, 2001. The course provides students with the generally accepted knowledge required of homeland security professionals. 3(3-0) D

**CRM 745 Topics in Homeland Defense and Security**

Prerequisite: CRM 740. A comprehensive and integrated homeland security and defense strategy must also include the full range of elected officials, first responders, the human, animal and plant health communities, business and our citizens. In this course we will examine the application, progress and problems of the development and implementation of a homeland security/defense strategy. 3(3-0) D

**CRM 750 Law Enforcement and Community**

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. 3(3-0) FO

**CRM 770 Correctional Theory and Practice**

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. 3(3-0) FO

**CRM 785 U.S. Drug Control Policy**

This course provides a historical overview of the formulation, implementation and evaluation of U.S. drug control policy. The focus is on critically reviewing the cultural, social and political forces that have shaped our nation's drug control policies and assessing the research that has been conducted to evaluate the effects of such policies. Topics to be examined include prohibition, interdiction, eradication, legalization, law enforcement and military responses, effects on the criminal justice system, treatment, education and prevention. 3(3-0) D

**CRM 790 Graduate Practicum in Criminology**

Prerequisite: permission of instructor. Faculty supervised experience in a criminology-related agency. Students are expected to work 45 hours in the agency for each credit hour. The practicum includes academic reflection on work experience at the agency. May be repeated for up to 6 hours. 1-6 D

**CRM 796 Directed Readings in Criminology**

Prerequisite: admission to the MS in Criminology or the MS in Administrative Studies with the Criminal Justice option; and permission of instructor. Faculty supervised arranged program of readings for the individual student directed by a member of the department graduate faculty. May be repeated to a maximum of six hours when the topic varies. 1-6 D

**CRM 799 Thesis**

Prerequisite: permission of instructor. Independent research and study connected with preparation of a thesis. May be repeated to a maximum of 6 hours. 1-6 D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Humanities and Public Affairs > Department of Defense and Strategic Studies

## Department of Defense and Strategic Studies

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Email: [DSS1@missouristate.edu](mailto:DSS1@missouristate.edu)  
Website: <http://dss.missouristate.edu>  
Department Head: Professor Keith B. Payne, Ph.D.

### Faculty (as of July 15, 2011)

**Professor:** Robert G. Joseph, Ph.D.

**Emeritus Professor:** William R. Van Cleave, Ph.D.

### Graduate Programs

The following graduate programs are available:

Defense and Strategic Studies (Master of Science).

Refer to the [Graduate Catalog](#) for more information.

**University Certificate (graduate):** A graduate level certificate program is available in Defense and Strategic Studies. Refer to the Graduate Catalog for more information.

### Defense and Strategic Studies Courses

#### DSS 501 Seminar on Nuclear Strategy and Arms Control

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. Supplemental course fee. Cannot receive credit for both DSS 501 and DSS 601. 3(3-0) F,S

#### DSS 502 Seminar on International Security Affairs

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. Supplemental course fee. May be taught concurrently with DSS 632. Cannot receive credit for both DSS 502 and DSS 632. 3(3-0) D

#### DSS 503 Analysis of International Security Politics

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. Supplemental course fee. May be taught concurrently with DSS 633. Cannot receive credit for both DSS 503 and DSS 633. 3(3-0) D

#### DSS 504 The Geopolitics of Conflict and Accommodation

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. Supplemental Course Fee. May be taught concurrently with DSS 634. Cannot receive credit for both DSS 504 and DSS 634. 3(3-0) F

#### DSS 601 Seminar on Nuclear Strategy and Arms Control

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. Supplemental course fee. May be taught concurrently with DSS 601. Cannot receive credit for both DSS 601 and DSS 501. 3(3-0), F,S

#### DSS 632 Seminar on International Security Affairs

Prerequisite: permission of instructor. 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 national interests, alliance relationships, intervention, regional threats, and the security problems of other states, particularly China and Russia. Supplemental Course Fee. May be taught concurrently with DSS 502. Cannot receive credit for both DSS 632 and DSS 502. 3(3-0), F,S

**DSS 633 Analysis of International Security Politics**

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. Supplemental course fee. May be taught concurrently with DSS 503. Cannot receive credit for both DSS 633 and DSS 503. 3(3-0), D

**DSS 634 The Geopolitics of Conflict and Accommodation**

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. Supplemental Course Fee. May be taught concurrently with DSS 504. Cannot receive credit for both DSS 634 and DSS 504. 3(3-0), F

**DSS 700 Strategy and U.S. Defense Policy**

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. Supplemental course fee. 3(3-0) F,S

**DSS 702 Seminar on Regional Security Problems**

Prerequisite: permission of 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. Supplemental course fee. 3(3-0) D

**DSS 703 Science, Technology, and Defense Policy**

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. Supplemental course fee. 3(3-0) D

**DSS 704 Arms Control: Theory and Practice**

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. Supplemental course fee. 3(3-0) D

**DSS 705 NATO Security Issues**

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. Supplemental course fee. 3(3-0) D

**DSS 706 Soviet and Russian Military Strategy**

Prerequisite: permission of 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. Supplemental course fee. 3(3-0) F, S

**DSS 707 Seminar on Defense Policy Analysis**

Prerequisite: 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. Supplemental course fee. 3(3-0) D

**DSS 708 Seminar on Contemporary Security Issues in the Former USSR**

Prerequisite: permission of 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. Supplemental course fee. 3(3-0) D

**DSS 709 Seminar on Space and Information Warfare**

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. Supplemental course fee. 3(3-0) D

#### **DSS 710 Seminar on International Terrorism and Security**

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. Supplemental course fee. 3(3-0) D

#### **DSS 711 The Rise of the United States to Preeminence**

Prerequisite: 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. Supplemental course fee. 3(3-0) D

#### **DSS 712 American National Security Policy**

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. Supplemental course fee. 3(3-0) D

#### **DSS 713 Intelligence, Counterintelligence, and Covert Action**

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. Supplemental course fee. 3(3-0) D

#### **DSS 714 Seminar on Strategic Thought**

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, Niccolò 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. Supplemental course fee. 3(3-0) D

#### **DSS 715 Grand Strategy**

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. Supplemental course fee. 3(3-0) D

#### **DSS 716 Understanding Military Operations**

Prerequisite: permission of instructor. This seminar delineates selected past, current, and future sea, air, space, and land conflicts into their constituent parts in order to examine the interaction of political objectives and military doctrine. It will specifically seek to explore how the political objectives and military doctrine influence technological development and military innovation. To meet these objectives, the seminar will examine a variety of international political and doctrinal problems that have had a major impact on American national security policy. Supplemental course fee. 3(3-0) D

#### **DSS 717 Small Wars, Imperial Conflicts, and Guerrilla Warfare**

Prerequisite: permission of instructor. This seminar examines some of the many forms of warfare that differ from "symmetrical" conflicts between great powers, with special attention to how great powers fight such wars and why they succeed or fail in bringing them to a satisfactory conclusion. Students will read a variety of literature written by authors such as C. E. Calwell, Victor Davis Hanson, and Colin Gray, as well as insurgents such as Che Guevara. The class will include a number of historical case studies, with an emphasis on the nineteenth, twentieth, and twenty-first centuries. Supplemental course fee. 3(3-0) D

#### **DSS 718 Causes of War**

Prerequisite: permission of instructor. This seminar explores the causes of warfare through the lens of human evolution, psychological approaches, economic system, ideology, and the international system, with the intention of understanding the strengths and limitations of each level of analysis. From that foundation, the seminar applies each level of analysis to the study of the origins of particularly significant wars: the Peloponnesian, Crimean, Seven Years', Korean, and Vietnam Wars, as well as World War I and World War II. Supplemental course fee. 3(3-0) D

#### **DSS 719 Strategic Culture**



Prerequisite: permission of instructor. Provides an introduction to using strategic culture as an analytical approach to understanding the cultural, religious, historical, and leadership sources of state and non-state actor behavior, with special reference to issues related to weapons of mass destruction. The concept of strategic culture captures domestic sources of state behavior, and offers an alternative or supplemental explanatory framework to the prevailing realist and constructionist theories of international relations. Examines the cultural context for applying theories of deterrence and dissuasion, and will involve a survey of thinking and analysis on strategic culture. from both theoretical and policy perspectives, as well as an exposure to the framework and methodology of strategic cultural analysis. Several key strategic cultures will serve as case studies. Supplemental course fee. 3(3-0) D

#### **DSS 720 Internship Training in DSS Policy**

Prerequisite: 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. Supplemental course fee. 1-3 D

#### **DSS 721 Missile Defense, Proliferation and Contemporary Warfare**

Prerequisite: permission of instructor. Examines the role of missile defense in the national security policies, programs, and military doctrines of the United States. Emphasis on exploring the evolution of missile defense within the broader context of contemporary American deterrence and defense policy. Supplemental course fee. 3(3-0) D

#### **DSS 722 Emerging Strategic Challenges**

Prerequisite: permission of instructor. For the purpose of this seminar, strategic challenges are defined as those emerging trends or security threats--political, economic, or military--that could fundamentally alter the present pattern of interstate relations or the core principles of U.S. foreign and defense policy. Examples include a possible cascade of proliferation resulting in 20 or 30 nuclear-armed states, a single terrorist with a nuclear weapon, or a resurgent Russia or ascendant China rising to a level of a peer competitor of the United States. Seminar reading and discussions will focus on: 1) Examining the causes, effects, and responses to these potential strategic challenges, especially the spread of weapons of mass destruction to state and non-state actors, both terrorists and enablers such as the A.Q. Kahn network; 2) Assessing assumptions, policies and capabilities for dealing with these challenges and how the concept of dissuasion, deterrence, and defense must adapt to the new security environment; and 3) Exploring how best to hedge against strategic uncertainties and how best to shape the future of the nuclear enterprise to promote the expansion of nuclear energy globally while reducing the risks of proliferation. Supplemental course fee. 3(3-0) D

#### **DSS 723 Counterproliferation**

Prerequisite: permission of instructor. Explores the challenges posed by nuclear and biological weapons in the hands of state and non-state actors. Students will investigate why various actors pursue these weapons, why some give them up, why others refuse to give them up, and the assorted instruments of national power that may be employed in the development of a national strategy to combat these weapons. Students will consider both the national security and homeland security aspects of these challenges. The subject matter will provide a vehicle for refining critical analytical skills; both verbal and written. The course will stress the refinement of each student's analytical and problem solving abilities as part of their development as national security strategists. Supplemental course fee. 3(3-0) D

#### **DSS 724 Leadership in National Security Policy**

Prerequisite: permission of instructor. Addresses the issue of national security policy leadership. Students will investigate the critical topics, including the components of good leadership, and the consequences of leadership failures. Speakers from the national security community will participate in order to explain the leadership challenges they faced in their careers. The subject matter will provide a vehicle for refining student leadership skills as part of their development as national security strategists. Supplemental course fee. 3(3-0) D

#### **DSS 725 Seminar on Instruments of State Power**

Prerequisite: permission of instructor. Instruments of state power encompass a broad range of tools--diplomatic, economic, intelligence, scientific and military--at the disposal of the state in the formulation and implementation of national security policy. Understanding the foundations, applications, and integration of these instruments is essential for the successful practitioner or scholar of security affairs. This seminar will focus on the individual instruments of U.S. power and their interrelationships in the conduct of foreign and defense policy. The class will employ case studies to assess the role of these instruments and the success and failure of their application. Supplemental course fee. 3(3-0) D

#### **DSS 726 Chinese Military Power**

Prerequisite: permission of instructor. This course focuses on the rising military power of China (its motivation and implications), Chinese objectives in Asia and their relationship to its military buildup, the impact of the Chinese military buildup on the military and deterrence requirements of the United States and our Asia Allies, the prospect and outcome of a military confrontation between China and Taiwan, including potential involvement of the United States and, in light of the potentially catastrophic consequences of a major war in the Far East, issues relating to the deterrence of China. The focus of the course will be on relatively recent developments--1990 to the present because of the dramatic shift in Chinese military capabilities, doctrine and objectives during this period. Supplemental course fee. 3(3-0) D

#### **DSS 796 Directed Reading and Research in Defense and Strategic Studies**

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 9 credit hours toward degree. Supplemental course fee. 1-9 F,S

#### **DSS 797 Special Topics**

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. Supplemental course fee. 1-3 F,S



**DSS 798 Seminar on Contemporary Defense Issues**

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. Supplemental course fee. 3(3-0), D

**DSS 799 Thesis**

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. Supplemental course fee. 1-6 D

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## Department of Economics

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Department Head: Professor Ardeshir J. Dalal, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Mahua Barari Mitra, Ph.D.; Reed N. Olsen, Ph.D.

**Associate Professors:** Terrel A. Gallaway, Ph.D.; David M. Mitchell, Ph.D.; Sharmistha Self, Ph.D.

**Assistant Professors:** Gabriela Best, Ph.D.; Christina Robinson, Ph.D.

**Senior Instructor:** Julie H. Gallaway, Ph.D.

**Instructor:** Per Norander, M.A.

**Emeritus Professors:** Joe A. Bell, Ph.D.; Larry G. Cox, M.A.; John Hoftzyer, Ph.D.; R. Brad Hoppes, Ph.D.; Doris Sheets, Ph.D.; Allan D. Stone, Ph.D.; Elizabeth E. Topping, Ph.D.; E. Dale Wasson, Ph.D.; Thomas L. Wyrick, Ph.D.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Majors

#### Economics (Non-Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements
  1. ECO 155(3), 165(3), 365(3), 385(3), 409(3), 590(3)
  2. One of the following statistics courses: AGR 330(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 328(3), or SOC 302(3)
  3. Minimum of nine additional credit hours in Economics
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

#### Economics (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements
  1. ECO 155(3), 165(3), 365(3), 385(3), 409(3), 590(3)
  2. One of the following statistics courses: AGR 330(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 328(3), or SOC 302(3)
  3. Minimum of 15 additional credit hours in Economics
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

#### Economics (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements

1. ECO 155(3), 165(3), 365(3), 385(3), 409(3), 590(3)
2. One of the following statistics courses: AGR 330(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 328(3), or SOC 302(3)
3. Minimum of 15 additional credit hours in Economics
4. 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 [General Baccalaureate Degree Requirements](#) section of catalog

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); BUS 135(3); FIN 380(3); LAW 231(3); MGT 286(3), 320(3) or 340(3); MKT 150(3) or 350(3)

**Public Administration/Government Orientation Track.** Courses are: ECO 310(3), 325(3), 450(3), 504(3), 515(3), 540(3); PLS 255(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), MTH 340(3), PSY 200(3), QBA 237(3), REC 328(3), or SOC 302(3)

## Economics Courses

### ECO 155 Principles of Macroeconomics

General Education Course (Culture and Society/Social Sciences Perspective). 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. 3(3-0) F,S

### ECO 165 Principles of Microeconomics

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. 3(3-0) F,S

### ECO 197 Topics in Economics

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. 1-3 D

### ECO 200 Personal Economics

An examination of topics designed to provide the student with skills aimed at promoting personal financial responsibility. Topics include budgeting, purchasing decisions, consumer credit, compound interest, savings and investments, home ownership, insurance, retirement and estate planning. 2(2-0) D

### ECO 300 Service Learning In Economics

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. 1 D

### ECO 302 Economic Analysis for Investors

Prerequisite: ECO 155 or ECO 165. 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. 3(3-0) F,S

### ECO 305 Money and Banking

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. 3(3-0) F,S

**ECO 310 Labor Economics**

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. 3(3-0) D

**ECO 315 The Economics of Gender**

Prerequisite: ECO 165. 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. Identical with GST 315. Cannot receive credit for both ECO 315 and GST 315. 3(3-0) D

**ECO 316 Sports and Entertainment Economics**

Prerequisite: ECO 165. Microeconomic tools used to examine a wide variety of topics pertaining to the sports and entertainment industry such as monopoly and monopsony market structure, labor market issues including free agency and salary caps, and public policy concerns involving the impacts of sports and entertainment on the economy. Also includes an examination of the economics of various forms of media and entertainment including movies, cable, music, amusement parks, and casinos. 3(3-0) D

**ECO 320 American Economic History**

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. 3(3-0) D

**ECO 325 Industrial Organization**

Prerequisite: ECO 165. Theory and public policy concerning the structure, conduct and performance of U.S. industries. Primary emphasis is on oligopolies and monopolies. 3(3-0) S

**ECO 345 Asian Economies**

This course addresses the rise to significance of the Asia-Pacific region in the world economy. This region of the world is typified by a delicate balance between governments and business interests, which accounts for their diverse development trajectories. This course will study how these countries have transformed themselves from peasant societies into industrial powerhouses and how they have continued to achieve growth rates several times higher than the advanced nations of the West over a period of time. 3(3-0) D

**ECO 346 International Economic Development**

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. 3(3-0) F

**ECO 365 Intermediate Microeconomics**

Prerequisite: ECO 165 and completion of mathematics general education requirement. Maximizing behavior of households and firms; theory of price and output determination under various market structures; distribution theory; introduction to general equilibrium analysis. 3(3-0) F

**ECO 385 Intermediate Macroeconomics**

Prerequisite: ECO 155. The study of macroeconomic theory and policy. Models are developed which provide a framework for the discussion of macroeconomic issues and the policy choices decision makers face. 3(3-0) F,S

**ECO 396 Directed Readings in Economics**

Prerequisite: QBA 237 or equivalent; and ECO 365 and ECO 385; and 75 hours. Readings and written reports in the area of particular interest to the student with the consent and guidance of the instructor. 1-3 D

**ECO 397 Studies in Economics**

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. Variable content course. 1-3 D

**ECO 399 Cooperative Education in Economics**

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. 1-3 D

**ECO 409 Applied Econometrics**

Prerequisite: QBA 237 or equivalent. Students will learn simple regression and multiple regression analysis. Additional topics include model building, cross sectional and time series analysis, as well as related topics. May be taught concurrently with ECO 709. Students cannot receive credit for both ECO 409 and ECO 709. 3(3-0) F

**ECO 435 The Economic Analysis of Law**

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. 3(3-0) D

**ECO 450 Urban and Regional Economics**

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 to location decisions. 3(3-0) F

**ECO 456 Comparative Economic Systems**

Prerequisite: ECO 155. Study of the basic principles and institutions of national economies with an emphasis on capitalist, socialist, and mixed economic systems. A comparison of economic systems in various nations and of economies in transition to an increasingly globalized environment. 3(3-0) F,S

**ECO 473 Mathematical Methods for Economics**

Prerequisite: ECO 155 and ECO 165. Recommended Prerequisite: ECO 365; and MTH 261 or MTH 285 or equivalent. Development and application of mathematical techniques to economics. 3(3-0) D

**ECO 475 Managerial Economics**

Prerequisite: ECO 155 and ECO 165. Application of economic analysis to decision making in business management. 3(3-0) F

**ECO 500 Fundamentals of Economics**

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. May be taught concurrently with ECO 600. Cannot receive credit for both ECO 600 and ECO 500. 3(3-0) D

**ECO 504 Health Care Economics**

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. Identical with HCM 504. Cannot receive credit for both ECO 504 and HCM 504. May be taught concurrently with ECO 604. Cannot receive credit for both ECO 604 and ECO 504. 3(3-0) F

**ECO 508 Intermediate Econometrics**

Prerequisite: ECO 409. Examination of the principles of economic model construction and the econometric techniques used in estimation of behavioral relationships. May be taught concurrently with ECO 611. Cannot receive credit for both ECO 611 and ECO 508. 3(3-0), D

**ECO 515 Public Sector Economics**

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. May be taught concurrently with ECO 615. Cannot receive credit for both ECO 615 and ECO 515. 3(3-0) D

**ECO 520 History of Economic Thought**

Prerequisite: ECO 155 and ECO 165. Development of economic theory. May be taught concurrently with ECO 620. Cannot receive credit for both ECO 620 and ECO 520. 3(3-0) D

**ECO 540 Economics of the Environment**

Prerequisite: ECO 165. 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. May be taught concurrently with ECO 640. Cannot receive credit for both ECO 640 and ECO 540. 3(3-0) F

**ECO 565 International Economics**

Prerequisite: ECO 155 and ECO 165. Recommended Prerequisite: QBA 237 or equivalent. Introduction to the key concepts of international trade and finance with a focus on the fundamental theories of international economics. Topics include the gains from and the patterns of international trade, protectionism, exchange rate determination and government policy intervention. May be taught concurrently with ECO 665. Cannot receive credit for both ECO 665 and ECO 565. 3(3-0) S

**ECO 585 Advanced Economic Analysis**

Prerequisite: ECO 365 and ECO 473; and 60 hours (ECO 473 may be waived if familiarity with calculus-based optimization techniques can be established). Unconstrained and constrained optimization; applications of the envelope theorem and duality to standard economic models, including utility maximization, profit maximization and expenditure/cost minimization. May be taught concurrently with ECO 685. Cannot receive credit for both ECO 685 and ECO 585. 3(3-0) D

**ECO 586 Business Cycles and Forecasting**

Prerequisite: ECO 385. Fluctuations in the level of economic activity; an examination of the basic principles and techniques of economic forecasting. May be taught concurrently with ECO 686. Cannot receive credit for both ECO 686 and ECO 586. 3(3-0) D

**ECO 590 Senior Research Seminar**

Prerequisite: ECO 365 and ECO 385 and ECO 409; and 90 hours. A seminar course requiring the completion of assignments which develop and refine economic research skills. A combination of papers and class presentations will be used to assess student achievement. Primarily for economics students in their final year of study. Graduating seniors are given enrollment priority. May be taught concurrently with ECO 790. Students cannot receive credit for both ECO 590 and ECO 790. 3(3-0) S

**ECO 599 Directed Research in Economics**

Prerequisite: ECO 365; and ECO 385 or ECO 610; and ECO 409. The student is expected to conduct research in a selected topic in economics and to produce a written report. May be taught concurrently with ECO 699. Cannot receive credit for both ECO 699 and ECO 599. 1-3 D

**ECO 600 Fundamentals of Economics**

Prerequisite: COBA majors 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 graduate degree. May be taught concurrently with ECO 500. Cannot receive credit for both ECO 500 and ECO 600. 3(3-0), D

**ECO 604 Health Care Economics**

Recommended 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. Identical with HCM 604. Cannot receive credit for both ECO 604 and HCM 604. May be taught concurrently with ECO 504. Cannot receive credit for both ECO 504 and ECO 604. 3(3-0), F

**ECO 611 Intermediate Econometrics**

Recommended Prerequisite: ECO 409. Examination of the principles of economic model construction and the econometric techniques used in estimation of behavioral relationships. May be taught concurrently with ECO 508. Cannot receive credit for both ECO 508 and ECO 611. 3(3-0), D

**ECO 615 Public Sector Economics**

Recommended 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. May be taught concurrently with ECO 515. Cannot receive credit for both ECO 515 and ECO 615. 3(3-0), D

**ECO 620 History of Economic Thought**

Recommended Prerequisite: ECO 155 and ECO 165. Development of economic theory. May be taught concurrently with ECO 520. Cannot receive credit for both ECO 520 and ECO 620. 3(3-0), D

**ECO 640 Economics of the Environment**

Recommended Prerequisite: ECO 165. 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. May be taught concurrently with ECO 540. Cannot receive credit for both ECO 540 and ECO 640. 3(3-0), F

**ECO 665 International Economics**

Recommended Prerequisite: QBA 237 or equivalent. Introduction to the key concepts of international trade and finance with a focus on the fundamental theories of international economics. Topics include the gains from and the patterns of international trade, protectionism, exchange rate determination and government policy intervention. May be taught concurrently with ECO 565. Cannot receive credit for both ECO 665 and ECO 565. 3(3-0) S

**ECO 685 Advanced Economic Analysis**

Recommended Prerequisite: ECO 365; and ECO 473 or familiarity with calculus-based optimization techniques. Unconstrained and constrained optimization; applications of the envelope theorem and duality to standard economic models, including utility maximization, profit maximization and expenditure/cost minimization. May be taught concurrently with ECO 585. Cannot receive credit for both ECO 585 and ECO 685. 3(3-0), D

**ECO 686 Business Cycles and Forecasting**

Recommended Prerequisite: ECO 385. Fluctuations in the level of economic activity; an examination of the basic principles and techniques of economic forecasting. May be taught concurrently with ECO 586. Cannot receive credit for both ECO 586 and ECO 686. 3(3-0), D

**ECO 699 Directed Research in Economics**

Recommended Prerequisite: ECO 365; and ECO 385 or ECO 710; and ECO 409. The student is expected to conduct research in a selected topic in economics and to produce a written report. May be taught concurrently with ECO 599. Cannot receive credit for both ECO 599 and ECO 699. 1-3, D

**ECO 705 Economic Studies**

Survey course; problems of government finance, fiscal policy, and resource structures; economic pressure groups. 3(3-0), D

**ECO 709 Applied Econometrics**

Prerequisite: QBA 600 or equivalent. Students will learn simple regression and multiple regression analysis. Additional topics include model building, cross sectional and time series analysis, as well as related topics. May be taught concurrently with ECO 409. Students cannot receive credit for both ECO 709 and ECO 409. 3(3-0), F

**ECO 710 Micro- and Macroeconomic Analysis**

Prerequisite: ECO 600 or equivalent. An intermediate to advanced study of selected topics in microeconomic and macroeconomic analysis. 3(3-0), F,S

**ECO 721 International Political Economy**

A general introduction to the politics of international economic relations, with a special emphasis on the extent, causes, and consequences of globalization. Covers such topics as trade, investment, aid, global warming, international institutions, and the political roots of economic development. May be taught concurrently with PLS 721. Students may not receive credit for both ECO 721 and PLS 721. 3(3-0), S

**ECO 730 Money and Credit Markets**

Recommended Prerequisite: ECO 305. 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. 3(3-0), D

**ECO 790 Seminar in Economics**

Prerequisite: ECO 709 and ECO 710. A seminar course requiring the completion of assignments which develop and refine economic research skills. A combination of papers and class presentations will be used to assess student achievement. Primarily

for graduate students in their final year of study. May be taught concurrently with ECO 590. Students cannot receive credit for both ECO 790 and ECO 590. 3(3-0), D

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2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Humanities and Public Affairs > Department of History

## Department of History

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Email: [History@missouristate.edu](mailto:History@missouristate.edu)  
Website: <http://history.missouristate.edu>  
Department Head: Professor, Kathleen A. Kennedy, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** John F. Chuchiak IV, Ph.D.; Marc Cooper, Ph.D.; Thomas S. Dicke, Ph.D.; David W. Gutzke, Ph.D.; Andrew W. Lewis, Ph.D.; F. Thornton Miller, Ph.D.; Worth R. Miller, Ph.D.; William G. Piston, Ph.D.

**Associate Professors:** Jamaine M. Abidogun, Ph.D.; Holly A. Baggett, Ph.D.; Brooks R. Blevins, Ph.D.; Bela Bodo, Ph.D.; Larry W. Burt, Ph.D.; Angela Hornsby-Gutting, Ph.D.; Stephen L. McIntyre, Ph.D.; Eric W. Nelson, Ph.D.; Bethany J. Walker, Ph.D.

**Assistant Professors:** Marcia Butler, Ph.D.; Michelle J. Morgan, Ph.D.; Carol Silvey, M.Ed. (West Plains)

**Distinguished Emeritus Professor:** Dominic J. Capeci, Jr. Ph.D.

**Emeritus Professors:** David B. Adams, Ph.D.; Meredith Adams, Ph.D.; Wayne C. Barteel, Ph.D.; Robert Flanders, Ph.D.; James N. Giglio, Ph.D.; William E. Hammond, Ph.D.; Duane G. Meyer, Ph.D.; Michael M. Sheng, Ph.D.

### Accreditation

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 Sciences, M.S.Ed.; National Council for Social Studies (NCSS) – History, B.S.Ed.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

History (Master of Arts); and Secondary Education with options in History and Social Sciences (Master of Science in Education).

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Arts in History

Eligible history majors may apply for preliminary acceptance into the Master of Arts program in History after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take up to 9 hours of graduate level history courses that apply to both their undergraduate and graduate programs (Mixed Credit). Once accepted, students can take HST 701 Historiography which will count toward both degrees and will meet the HST 390 Historiography requirement for a history major. This option gives exceptional undergraduate students the opportunity to complete their bachelor's and master's degrees in five years (ten semester and a summer).

#### Accelerated Master of Science in Education in Secondary Education/History

Eligible undergraduate BSED majors in History may apply for early admission to the Master of Science in Education in Secondary Education/History program. Once accepted for early admission, students will be able to take up to six (6) hours of history courses at the 600-level that apply to both their undergraduate and graduate programs (Mixed Credit). Students must completed their BSED History program and receive Missouri state teacher certification in Social Sciences (9-12) to continue in the MSED Secondary Education/History program beyond the six (6) hours earned through the accelerated master's program option.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

#### University Certificate (graduate)

A graduate level certificate program is available in History for Teachers. Refer to the Graduate Catalog for more information.

### Majors

#### History (Non-Comprehensive)

Bachelor of Arts



- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (39 hours):
  - 1. Core Requirements (18 hours)
    - a. HST 121(3) and 122(3)
    - b. HST 210(3), 390(3), 598(3)
    - c. One of the following: HST 392(3), 393(3), 394(3)
  - 2. Complete 6 hours of courses chosen from two of the following areas:
    - a. Africa: HST 323(3), 335(3)
    - b. Asia: HST 380(3), 381(3), 571(3)
    - c. Latin America: HST 350(3), 587(3), 588(3)
    - d. Middle East: HST 370(3), 371(3), 541(3), 542(3), 543(3), 544(3), 573(3), 574(3)
    - e. Interregional and Cross-Regional: HST 340(3), 344(3), 563(3)
  - 3. Complete 3 hours in European History: HST 343(3), 353(3), 355(3), 356(3), 360(3), 361(3), 545(3), 548(3), 549(3), 551(3), 553(3), 559(3), 562(3), 566(3)
  - 4. Complete 3 hours in United State History: HST 315(3), 324(3), 329(3), 330(3), 331(3), 332(3), 375(3), 509(3), 510(3), 515(3), 517(3), 518(3), 519(3), 521(3), 523(3), 524(3), 525(3), 528(3), 531(3), 536(3), 537(3), 538(3)
  - 5. Complete an additional 9 hours of upper-division history courses: HST 315(3), 323(3), 324(3), 329(3), 330(3), 331(3), 332(3), 335(3), 340(3), 343(3), 344(3), 350(3), 353(3), 355(3), 356(3), 360(3), 361(3), 370(3), 371(3), 375(3), 380(3), 381(3), 509(3), 510(3), 515(3), 517(3), 518(3), 519(3), 521(3), 523(3), 524(3), 525(3), 528(3), 531(3), 536(3), 537(3), 538(3), 541(3), 542(3), 543(3), 544(3), 545(3), 548(3), 549(3), 551(3), 553(3), 559(3), 562(3), 563(3), 566(3), 571(3), 573(3), 574(3), 587(3), 588(3)
  - 6. Of courses in numbered items 2, 3 4 and 5 above:
    - a. At least two must be pre-modern history courses: HST 315(3), 323(3), 324(3), 330(3), 331(3), 335(3), 340(3), 343(3), 344(3), 350(3), 360(3), 370(3), 380(3), 509(3), 510(3), 515(3), 517(3), 518(3), 538(3), 541(3), 542(3), 544(3), 545(3), 548(3), 549(3), 573(3), 574(3), 587(3)
    - b. At least two must be modern history courses: HST 315(3), 323(3), 324(3), 329(3), 330(3), 331(3), 332(3), 335(3), 340(3), 350(3), 353(3), 355(3), 356(3), 361(3), 370(3), 371(3), 375(3), 381(3), 509(3), 510(3), 515(3), 517(3), 519(3), 521(3), 523(3), 524(3), 525(3), 528(3), 531(3), 536(3), 537(3), 538(3), 543(3), 544(3), 551(3), 553(3), 559(3), 562(3), 563(3), 566(3), 571(3), 587(3), 588(3)
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## History

Bachelor of Science in Education  
(Certifiable grades 9-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (56 hours):
  - 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), 324(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), 344(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), 422(6-10), 423(2); meet History program requirement of a minimum GPA of 2.75 in the Social Sciences as a part of approval for supervised teaching; and the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. At least a 2.75 combined GPA (Missouri State and transfer) in the social science area (major field of study) which includes all courses listed under B
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 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), 544(3), 571(3), 573(3), 574(3), 587(3)
- C. Select nine 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), 324(3), 329(3), 330(3), 331(3), 332(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), 528(3), 531(3), 536(3), 537(3), 538(3)
- D. Select one course in European History: HST 340(3), 343(3), 353(3), 355(3), 356(3), 360(3), 361(3), 541(3), 542(3), 543(3), 545(3), 548(3), 549(3), 551(3), 553(3), 559(3), 562(3), 563(3), 564(3), 566(3)
- E. Select three 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)

## History Courses

### HST 103 World History to Circa 1600 C.E.

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F,S

### HST 104 World History Since 1600 C.E.

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F,S

### HST 121 Survey of the History of the United States to 1877

General Education Course (Public Affairs/American Studies). 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. 3(3-0) F,S

### HST 122 Survey of the History of the United States Since 1877

General Education Course (Public Affairs/American Studies). 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. 3(3-0) F,S

### HST 200 The Twentieth Century World: An International History

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. 3(3-0) F,S

### HST 210 Writing II: Historical Inquiry

Prerequisite: ENG 110 and 30 hours. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

### HST 300 Service Learning in History

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. 1 F,S

### HST 315 Military History of the United States

Recommended Prerequisite: HST 121 or 122. American Military History from the colonial period to the present; its relation to the national development in war and peace. 3(3-0) F,S

**HST 323 Women in Africa**

Recommended Prerequisite: HST 103 or 104. 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. 3(3-0) D

**HST 324 Women in American History**

A survey of the role of American women from the colonial era to the present. Topics include women's historical roles in work, family, politics, sexuality and culture. 3(3-0) D

**HST 329 The Automobile in American Life**

Recommended Prerequisite: 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. 3(3-0) D

**HST 330 Business and Society, Colonial Times to Present**

Recommended Prerequisite: 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. 3(3-0) D

**HST 331 African American History I**

Recommended Prerequisite: 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. 3(3-0) D

**HST 332 African American History II**

Recommended Prerequisite: HST 122 or AAS 100. Continuation of HST 331, 1865-present. Emphasis on the struggles for racial justice; protest organizations, philosophies and tactics. 3(3-0) D

**HST 335 African Civilization**

Recommended Prerequisite: HST 103 or 104. 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. 3(3-0) D

**HST 340 Business and Society, U.S., Britain, and Japan**

Recommended Prerequisite: 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. 3(3-0) D

**HST 343 Ancient Rome**

Recommended Prerequisite: HST 103. Roman civilization to the downfall of the Empire. Broad social, economic, technological and cultural developments. The problems of the decline of ancient civilization. 3(3-0) D

**HST 344 Ancient Civilizations**

Recommended Prerequisite: HST 103. From the origins of civilizations in the ancient Near East to the fall of the Roman Empire, this survey course traces the development of the history of the ancient world. It pays special attention to political systems and ideals by including detailed instructions in the origins of Monarchy, the Athenian democracy, the Roman Republic, and the Roman Empire. 3(3-0), D

**HST 350 Latin American Civilization**

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. 3(3-0) D

**HST 353 History of Europe in the 19th Century, 1815-1918**

Recommended Prerequisite: HST 104. 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. 3(3-0) D

**HST 355 Contemporary Europe: 1918 to the Present**

Recommended Prerequisite: HST 104. Europe between the wars, the coming of World War II, European problems since 1945. 3(3-0) D

**HST 356 Nazi Germany**

Recommended Prerequisite: HST 104. This course has been envisioned as a multi-disciplinary course, dealing with the complex and often controversial aspects of Nazi rule. The course begins chronologically with the examination of the crisis in Weimar Democracy and the Nazi seizure of power. Then it discusses the transformation of German society under Nazi rule; the fate of youth organizations, schools, universities and churches; the impact of Nazism on popular and high cultures; Nazi social policy; war on racial and ethnic minorities and homosexuals. The third part deals with Nazi foreign policy; the Second World War; the genocide of Eastern Europeans; the Holocaust, and the collapse of the Third Reich. At the final meeting, we discuss the memory of the Third Reich. 3(3-0) D

**HST 360 Britain, 55 B.C.-1688**

Recommended Prerequisite: HST 103. 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.

3(3-0) D

**HST 361 Britain, 1688-Present**

Recommended Prerequisite: HST 103 or 104. Transition from pre-industrial to industrial society; tenacity of aristocratic power and influence; growth of the welfare state; economic and international decline. 3(3-0) D

**HST 370 History of the Middle East from 600-1914**

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. 3(3-0) D

**HST 371 History of the Middle East Since 1914**

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. 3(3-0) D

**HST 375 The Ozarks in American History**

Recommended Prerequisite: 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. 3(3-0) D

**HST 380 East Asian Civilization I**

A comparative historical treatment of China and Japan from earliest times to 1600. 3(3-0) F

**HST 381 East Asian Civilization II**

A comparative historical treatment of China and Japan from 1600 to the present. 3(3-0) S

**HST 390 Introduction to Historiography**

Prerequisite: 9 hours of history. 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. 3(3-0), S

**HST 392 European History Primary Source Seminar**

Prerequisite: HST 210. This is a variable content, writing-intensive seminar in European history. Students will be introduced to methods of primary source analysis and historical writing and prepare a seminar paper based on primary sources on a focused topic in European history. 3(3-0) D

**HST 393 United States History Primary Source Seminar**

Prerequisite: HST 210. This is a variable content, writing-intensive seminar in United States history. Students will be introduced to methods of primary source analysis and historical writing and prepare a seminar paper based on primary sources on a focused topic in United States history. 3(3-0) D

**HST 394 World History Primary Source Seminar**

Prerequisite: HST 210. This is a variable content, writing-intensive seminar in World history. Students will be introduced to methods of primary source analysis and historical writing and prepare a seminar paper based on primary sources on a focused topic in World history. 3(3-0) D

**HST 397 Special Topics in History**

Recommended Prerequisite: 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. 1-3 D

**HST 418 Teaching of Secondary School Social Studies**

Prerequisite: 12 hours history and SEC 302, EDC 350, SPE 340, current preprofessional liability insurance, 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. 4(3-2) F,S

**HST 420 Supervised Teaching (Secondary Social Studies)**

Prerequisite: HST 418; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches social studies 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

**HST 421 Supervised Teaching (Secondary Social Studies)**

Prerequisite: concurrent enrollment in HST 420. Student observes then teaches under the direction of the cooperation teacher and the university supervisor. Student participates in school-related activities appropriate to the assignment and attends all required meetings. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

**HST 422 Supervised Teaching (Secondary Social Studies)**

Prerequisite: HST 418; a grade of "C" or better in all professional education courses; minimum GPA of 2.75 in Social Sciences; current pre-professional liability insurance; and approval for supervised teaching; and concurrent enrollment in HST 423. Student observes then teaches social studies 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. Only students seeking

secondary social studies certification may enroll in this course. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-10 F,S

#### **HST 423 Seminar in Supervised Teaching**

Prerequisite: HST 418; a grade of "C" or better in all professional education courses; minimum GPA of 2.75 in Social Sciences; approval for supervised teaching; and concurrent enrollment in HST 422. A seminar designed for the purpose of discussion and analysis of field experiences during the supervised teaching semester. Topics include: Theory Into Practice, Diversity in the Classroom, Classroom Management, Classroom Assessment, Job Search and Professional Development. Students will attend workshops throughout the semester. Only students seeking secondary social studies certification may enroll in this course. 2(2-0) F,S

#### **HST 496 Independent Readings in History**

Prerequisite: permission of instructor and department head. 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. 1-3 D

#### **HST 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

#### **HST 509 Indian History**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 609. Cannot receive credit for both HST 609 and HST 509. 3(3-0) F

#### **HST 510 The Plains Indians**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 611. Cannot receive credit for both HST 611 and HST 510. 3(3-0) S

#### **HST 515 American Environmental History**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 615. Cannot receive credit for both HST 615 and HST 515. 3(3-0) D

#### **HST 517 Legal and Constitutional History of the United States**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 617. Cannot receive credit for both HST 617 and HST 517. 3(3-0) D

#### **HST 518 Colonial America**

Prerequisite: 50 hours. Character, development and modification of the English Empire in North America. May be taught concurrently with HST 618. Cannot receive credit for both HST 618 and HST 518. 3(3-0) D

#### **HST 519 The American Revolution**

Prerequisite: 50 hours. Origins of the Revolution, War of Independence, and the society, government, and economy of the Revolutionary and Confederation eras. May be taught concurrently with HST 619. Cannot receive credit for both HST 619 and HST 519. 3(3-0) D

#### **HST 521 Early American Republic**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 621. Cannot receive credit for both HST 621 and HST 521. 3(3-0) D

#### **HST 523 Nineteenth Century America**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 623. Cannot receive credit for both HST 623 and HST 523. 3(3-0) D

#### **HST 524 Civil War and Reconstruction**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 624. Cannot receive credit for both HST 624 and HST 524. 3(3-0) D

**HST 525 Gilded Age/Progressive Era America, 1865-1920**

Prerequisite: 50 hours. Political, economic, social and intellectual development of the United States from the end of the Civil War through World War I and its aftermath. May be taught concurrently with HST 625. Cannot receive credit for both HST 625 and HST 525. 3(3-0) D

**HST 528 U.S. History Since 1945**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 628. Cannot receive credit for both HST 628 and HST 528. 3(3-0) D

**HST 531 African American Leaders and Movements**

Prerequisite: 50 hours. Study of African American leaders and movements in the United States, with emphasis on the period since World War II. May be taught concurrently with HST 631. Cannot receive credit for both HST 631 and HST 531. 3(3-0) D

**HST 536 History of Missouri**

Prerequisite: 50 hours. Economic, social, political and constitutional history of the state; role played by Missouri in national affairs. May be taught concurrently with HST 636. Cannot receive credit for both HST 636 and HST 536. 3(3-0) D

**HST 537 History of the American West**

Prerequisite: 50 hours. Westward movement in America as history and myth; influence of the West on American society and character. May be taught concurrently with HST 637. Cannot receive credit for both HST 637 and HST 537. 3(3-0) D

**HST 538 History of the American South, 1607-Present**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 638. Cannot receive credit for both HST 638 and HST 538. 3(3-0) D

**HST 541 The Ancient Near East to 1200 BCE**

Prerequisite: 50 hours. Sumerians, Babylonians, Egyptians and Hittites; special reference to Hebrew scripture. Interrelationships among ancient civilizations; readings from original sources in English translation. May be taught concurrently with HST 641. Cannot receive credit for both HST 641 and HST 541. 3(3-0) F

**HST 542 Ancient Israel**

Prerequisite: 50 hours. History of Israel to the end of the Persian period with special reference to the Canaanites, Mycenaean, Philistines, Phoenicians, Assyrians, Chaldaean, and Persians. May be taught concurrently with HST 642. Cannot receive credit for both HST 642 and HST 542. 3(3-0) S

**HST 543 History of the Arab-Israeli Conflict**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 643. Cannot receive credit for both HST 643 and HST 543. 3(3-0) D

**HST 544 Women in Islam**

Prerequisite: 50 hours. This course examines the complexities of Middle Eastern culture through the lens of gender, focusing on women in Islamic society. Course will examine and critique current scholarly and journalistic literature (largely by Muslim women), films and documentaries, and current events in order to better understand current social, political, and economic developments in the Middle East. Special emphasis is on Egypt and Iran, which have enjoyed the lion's share of academic and legal attention. While the focus is on the modern Middle East, coverage also includes a historical review of scriptural roots and socio-political structures from the Middle Ages until today. The course has been designed as a quasi-seminar, where students meet in round-table fashion and discuss together readings that have been prepared in advance, in combination with lecture. May be taught concurrently with HST 644. Cannot receive credit for both HST 544 and HST 644. 3(3-0) D

**HST 545 Medieval Europe**

Prerequisite: 50 hours. Recommended Prerequisite: HST 103. History of Medieval France, Germany, and the Papacy from the 5th Century to the 16th Century. May be taught concurrently with HST 645. Cannot receive credit for both HST 545 and HST 645. 3(3-0) F

**HST 548 The Renaissance**

Prerequisite: 50 hours. Recommended Prerequisite: HST 103. Europe from about 1320 to about 1550, in the transition period from Medieval civilization to Modern Civilization; history of ideas and culture. May be taught concurrently with HST 648. Cannot receive credit for both HST 648 and HST 548. 3(3-0) D

**HST 549 The Reformation**

Prerequisite: 50 hours. Early modern period of European history, 1500-1648. Religious controversy, religious wars, growth of the secular state. May be taught concurrently with HST 649. Cannot receive credit for both HST 649 and HST 549. 3(3-0) D

**HST 551 The French Revolution and the Napoleonic Era**

Prerequisite: 50 hours. Causes and phases of the Revolution in France; the expansion of the Revolution; rise and downfall of Napoleon. May be taught concurrently with HST 651. Cannot receive credit for both HST 651 and HST 551. 3(3-0) D

**HST 553 History of Europe in the 19th Century, 1815-1918**

Prerequisite: 50 hours. Forces unleashed by the French Revolution and other movements, including liberalism, reaction, nationalism, industrialization, and imperialism. May be taught concurrently with HST 653. Cannot receive credit for both HST 653 and HST 553. 3(3-0) D

**HST 559 Germany, 1815-Present**

Prerequisite: 50 hours. The unification process, the German Empire, Weimar Republic, Third Reich, Germany as a European Great Power. May be taught concurrently with HST 659. Cannot receive credit for both HST 659 and HST 559. 3(3-0) D

**HST 562 Communism in Eastern Europe, 1917-1990**

Prerequisite: 50 hours. This course examines the emergence, development and demise of communist regimes in Eastern Europe. Conceived as a multi-disciplinary class, the course will look at a wide range of topics including, but not limited to, the creation of the police state, economic and social developments and the position of intellectuals, women and young people in communist societies, the "velvet revolutions" and the collapse of the system in the late 1980s. Special emphasis will be placed on culture, including literature and film as vehicles of protest against oppression. 3(3-0) D

**HST 563 History of Fascism**

Prerequisite: 50 hours. This course deals mainly with interwar fascist movements and regimes in Europe and examines such relevant questions as the intellectual origins of fascism; paramilitary violence after WW1; charismatic leadership; state terrorism; fascist art and propaganda; social policy; imperialism and war and genocide. It also examines the history of Right radical, fascist and post-fascist movement and regimes in Europe, Latin America (Argentina, Chile, Brazil and Peru), United States, South Africa, the Middle East (Egypt, Syria and Iraq) and Africa (Ghana, Nigeria, Congo, Uganda) after 1945. 3(3-0) D

**HST 564 History of the Holocaust**

Prerequisite: 50 hours. Envisioned as a multi-disciplinary class, this course examines the complex history of the Holocaust during the Second World War. It discusses such important topics as the life of Jewish communities in Germany and Eastern Europe before 1933; Jewish emancipation; the rise of political anti-Semitism; Hitler and the creation of the Third Reich; discrimination against racial outsiders and "asocials"; the life of Jews in Nazi Germany; the "twisted road to Auschwitz"; the historical debates on the origins of the genocide; the social and psychological make-up of the perpetrators; the role of bystanders both in Germany and other parts of Europe; Jewish resistance and finally the memory of the Holocaust in Germany, Israel, United States and Eastern Europe. 3(3-0) D

**HST 566 Victorian and Edwardian England**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 666. Cannot receive credit for both HST 666 and HST 566. 3(3-0) D

**HST 571 China in the Twentieth Century**

Prerequisite: 50 hours. An intensive study of the transformation of China from a Confucian, Feudal state to a Communist world power. May be taught concurrently with HST 671. Cannot receive credit for both HST 671 and HST 571. 3(3-0) D

**HST 573 Hst/Archlgy of the Middle East**

Recommended Prerequisite: HST 103. Archaeology as a tool for historical inquiry is the focus of this course. In this course students will become familiar with the problems and methods of the discipline as they related to the larger questions of Middle Eastern history, including migration and settlement, the impact of war, land use and ecological issues, religion and identity, transformations of the traditional Middle Eastern household, and the relations between local society and the state. Topics covered in lectures and students' projects include the use of textual sources, palaeography, and other methodological challenges; historic preservation and heritage management; legal issues and the politics of archaeology; and museum work. Case studies in the course chronologically range from ancient to Ottoman-era sites, but the focus of the course is the medieval era (Byzantine, Crusader, Islamic). A series of lectures, hands-on work with the Jordan study collection, and documentaries will expose the student to the wide range of disciplines pulled into the service of archaeology and different methodologies. Special emphasis is placed on current fieldwork at Tall Hisban in Jordan and the Northern Jordan Project. Enrollment in this course is strongly encouraged for students interested in joining the Jordan Archaeology Fieldschool as Study Away in the summers. May be taught concurrently with HST 673. Cannot receive credit for both HST 573 and HST 673. 3(3-0) S

**HST 574 Jordan Archaeology Study Away**

Prerequisite: permission of instructor. Recommended Prerequisite: HST 103 and HST 573. This course is a formal archaeological field school—with field, lab, and classroom components—held on-site in Jordan as an MSU Study Away Program in the summers. The field school provides hands-on training in archaeological excavation and post-season object analysis techniques; students will also participate in several projects related to site presentation, architectural preservation, and community outreach that are running concurrently with the project. The field school rotates between the Tall Hisban excavations and the Northern Jordan Project (NJP), held at each site in alternative summers. Excursions to sites of archaeological, historical, religious, and cultural interest are organized on weekends. Students attending the field school are strongly encouraged to take HST 573 beforehand. The program, depending on the research objectives that year, will run 3-6 weeks. May be taught concurrently with HST 674. Cannot receive credit for both HST 574 and HST 674. 3, Su

**HST 587 Mexico from Colony to Nation**

Prerequisite: 50 hours. Mexican history from the colonial period to the Revolution of 1910. May be taught concurrently with HST 682. Cannot receive credit for both HST 682 and HST 587. 3(3-0) D

**HST 588 Twentieth-Century Mexico**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 688. Cannot receive credit for both HST 688 and HST 588. 3(3-0) D

**HST 597 Topics in History**

Prerequisite: 50 hours. 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. May be taught concurrently with HST 697. Cannot receive credit for



both HST 697 and HST 597. 1-3 D

**HST 598 Senior Seminar in History**

Prerequisite: HST 390; and Writing II or concurrent enrollment; and 90 hours. Concentrated study of a sharply focused topic and the preparation of a bachelor's paper based on primary research. Course content varies each semester. Required for the B.A. in History. This course is strongly recommended for anyone considering graduate school. Graduating seniors are given enrollment priority. 3(3-0) D

**HST 599 Internship in Public History**

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. One credit hour for each 40 hours of service. May be taught concurrently with HST 698. Cannot receive credit for both HST 698 and HST 599. 1-3 D

**HST 609 Indian History**

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. May be taught concurrently with HST 509. Cannot receive credit for both HST 509 and HST 609. 3(3-0), F

**HST 611 The Plains Indians**

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. May be taught concurrently with HST 510. Cannot receive credit for both HST 510 and HST 611. 3(3-0), S

**HST 615 American Environmental History**

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. May be taught concurrently with HST 515. Cannot receive credit for both HST 515 and HST 615. 3(3-0), D

**HST 617 Legal and Constitutional History of the United States**

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. May be taught concurrently with HST 517. Cannot receive credit for both HST 517 and HST 617. 3(3-0), D

**HST 618 Colonial America**

Character, development and modification of the English Empire in North America. May be taught concurrently with HST 518. Cannot receive credit for both HST 518 and HST 618. 3(3-0), D

**HST 619 The American Revolution**

Origins of the Revolution, War of Independence, and the society, government, and economy of the Revolutionary and Confederation eras. May be taught concurrently with HST 519. Cannot receive credit for both HST 519 and HST 619. 3(3-0), D

**HST 621 Early American Republic**

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. May be taught concurrently with HST 521. Cannot receive credit for both HST 521 and HST 621. 3(3-0), D

**HST 623 Nineteenth Century America**

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. May be taught concurrently with HST 523. Cannot receive credit for both HST 523 and HST 623. 3(3-0), D

**HST 624 Civil War and Reconstruction**

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. May be taught concurrently with HST 524. Cannot receive credit for both HST 524 and HST 624. 3(3-0), D

**HST 625 Gilded Age/Progressive Era America, 1865-1920**

Political, economic, social and intellectual development of the United States from the end of the Civil War through World War I and its aftermath. May be taught concurrently with HST 525. Cannot receive credit for both HST 525 and HST 625. 3(3-0), D

**HST 627 Recent American History, 1929-Present**

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 627 and HST 337. 3(3-0), D

**HST 628 U.S. History Since 1945**

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. May be taught concurrently with HST 528. Cannot receive credit for both HST 528 and HST 628. 3(3-0), D



### **HST 631 African American Leaders and Movements**

Study of African American leaders and movements in the United States, with emphasis on the period since World War II. May be taught concurrently with HST 531. Cannot receive credit for both HST 531 and HST 631. 3(3-0), D

### **HST 636 History of Missouri**

Economic, social, political and constitutional history of the state; role played by Missouri in national affairs. May be taught concurrently with HST 536. Cannot receive credit for both HST 536 and HST 636. 3(3-0), D

### **HST 637 History of the American West**

Westward movement in America as history and myth; influence of the West on American society and character. May be taught concurrently with HST 537. Cannot receive credit for both HST 537 and HST 637. 3(3-0), D

### **HST 638 History of the American South, 1607-Present**

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. May be taught concurrently with HST 538. Cannot receive credit for both HST 538 and HST 638. 3(3-0), D

### **HST 641 The Ancient Near East to 1200 BCE**

Sumerians, Babylonians, Egyptians and Hittites; special reference to Hebrew scripture. Interrelationships among ancient civilizations; readings from original sources in English translation. May be taught concurrently with HST 541. Cannot receive credit for both HST 541 and HST 641. 3(3-0), F

### **HST 642 Ancient Israel**

History of Israel to the end of the Persian period with special reference to the Canaanites, Mycenaeans, Philistines, Phoenicians, Assyrians, Chaldeans, and Persians. May be taught concurrently with HST 542. Cannot receive credit for both HST 542 and HST 642. 3(3-0), S

### **HST 643 History of the Arab-Israeli Conflict**

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. May be taught concurrently with HST 543. Cannot receive credit for both HST 543 and HST 643. 3(3-0), D

### **HST 644 Women in Islam**

This course examines the complexities of Middle Eastern culture through the lens of gender, focusing on women in Islamic society. Course will examine and critique current scholarly and journalistic literature (largely by Muslim women), films and documentaries, and current events in order to better understand current social, political, and economic developments in the Middle East. Special emphasis is on Egypt and Iran, which have enjoyed the lion's share of academic and legal attention. While the focus is on the modern Middle East, coverage also includes a historical review of scriptural roots and socio-political structures from the Middle Ages until today. The course has been designed as a quasi-seminar, where students meet in round-table fashion and discuss together readings that have been prepared in advance, in combination with lecture. May be taught concurrently with HST 544. Cannot receive credit for both HST 644 and HST 544. 3(3-0) D

### **HST 645 Medieval Europe**

History of Medieval France, Germany, and the Papacy from the 5th Century to the 16th Century. May be taught concurrently with HST 545. Cannot receive credit for both HST 545 and HST 645. 3(3-0), F

### **HST 648 The Renaissance**

Europe from about 1320 to about 1550, in the transition period from Medieval civilization to Modern Civilization; history of ideas and culture. May be taught concurrently with HST 548. Cannot receive credit for both HST 548 and HST 648. 3(3-0), D

### **HST 649 The Reformation**

Early modern period of European history, 1500-1648. Religious controversy, religious wars, growth of the secular state. May be taught concurrently with HST 549. Cannot receive credit for both HST 549 and HST 649. 3(3-0), D

### **HST 651 The French Revolution and the Napoleonic Era**

Causes and phases of the Revolution in France; the expansion of the Revolution; rise and downfall of Napoleon. May be taught concurrently with HST 551. Cannot receive credit for both HST 551 and HST 651. 3(3-0), D

### **HST 653 History of Europe in the 19th Century, 1815-1918**

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 553 and HST 653. 3(3-0), D

### **HST 656 France Since 1815**

A survey of French political, economic, social and intellectual developments. Special emphasis on the search for a stable political and economic system through the Fifth Republic and into the new multinational Europe. 3(3-0), D

### **HST 659 Germany, 1815-Present**

The unification process, the German Empire, Weimar Republic, Third Reich, Germany as a European Great Power. May be taught concurrently with HST 559. Cannot receive credit for both HST 559 and HST 659. 3(3-0), D

### **HST 661 Russia Since 1801**

Emphasis on the modernization of Russia, the rise of dissent, Russia's interaction with Europe, change and continuity between Imperial and Soviet Russia. 3(3-0), D

### **HST 665 English Constitution, Courts and Common Law**

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. 3(3-0), F

### **HST 666 Victorian and Edwardian England**

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. May be taught concurrently with HST 566. Cannot receive credit for both HST 566 and HST 666. 3(3-0), D

### **HST 671 China in the Twentieth Century**

An intensive study of the transformation of China from a Confucian, Feudal state to a Communist world power. May be taught concurrently with HST 571. Cannot receive credit for both HST 571 and HST 671. 3(3-0), D

### **HST 673 History and Archaeology of the Middle East**

Archaeology as a tool for historical inquiry is the focus of this course. In this course students will become familiar with the problems and methods of the discipline as they related to the larger questions of Middle Eastern history, including migration and settlement, the impact of war, land use and ecological issues, religion and identity, transformations of the traditional Middle Eastern household, and the relations between local society and the state. Topics covered in lectures and students' projects include the use of textual sources, palaeography, and other methodological challenges; historic preservation and heritage management; legal issues and the politics of archaeology; and museum work. Case studies in the course chronologically range from ancient to Ottoman-era sites, but the focus of the course is the medieval era (Byzantine, Crusader, Islamic). A series of lectures, hands-on work with the Jordan study collection, and documentaries will expose the student to the wide range of disciplines pulled into the service of archaeology and different methodologies. Special emphasis is placed on current fieldwork at Tall Hisban in Jordan and the Northern Jordan Project. Enrollment in this course is strongly encouraged for students interested in joining the Jordan Archaeology Fieldschool as Study Away in the summers. May be taught concurrently with HST 573. Cannot receive credit for both HST 673 and HST 573. 3(3-0) S

### **HST 674 Jordan Archaeology Study Away**

Prerequisite: permission of instructor. Recommended Prerequisite: HST 673. This course is a formal archaeological field school--with field, lab, and classroom components--held on-site in Jordan as an MSU Study Away Program in the summers. The field school provides hands-on training in archaeological excavation and post-season object analysis techniques; students will also participate in several projects related to site presentation, architectural preservation, and community outreach that are running concurrently with the project. The field school rotates between the Tall Hisban excavations and the Northern Jordan Project (NJP), held at each site in alternative summers. Excursions to sites of archaeological, historical, religious, and cultural interest are organized on weekends. Students attending the field school are strongly encouraged to take HST 673 beforehand. The program, depending on the research objectives that year, will run 3-6 weeks. May be taught concurrently with HST 574. Cannot receive credit for both HST 674 and HST 574. 3, Su

### **HST 682 Mexico from Colony to Nation**

Mexican history from the colonial period to the Revolution of 1910. May be taught concurrently with HST 587. Cannot receive credit for both HST 587 and HST 682. 3(3-0), D

### **HST 688 Twentieth-Century Mexico**

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. May be taught concurrently with HST 588. Cannot receive credit for both HST 588 and HST 688. 3(3-0), D

### **HST 697 Topics in History**

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. May be taught concurrently with HST 597. Cannot receive credit for both HST 597 and HST 697. 1-3, D

### **HST 698 Internship in Public History**

Prerequisite: permission of department head. 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 MA major in History. One credit hour for each 40 hours of service. May be taught concurrently with HST 599. Cannot receive credit for both HST 599 and HST 698. 1-3, D

### **HST 701 Historiography and Historical Method**

Various philosophies of history and theories concerning method, purpose and meaning of history; problems of research. 3(3-0), F

### **HST 702 Secondary School Curriculum for the Social Studies**

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. 3(3-0), D

### **HST 710 Seminar in Ancient History**

Prerequisite: HST 701. 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. 3(3-0), D

### **HST 720 Proseminar in American History**

Recommended Prerequisite: HST 701. Readings in chosen periods and topics in American History for the graduate student. May be repeated once for credit. 3(3-0), D

### **HST 725 The Upland South**

Recommended Prerequisite: HST 701. Readings in the history of the Upland South (the Ozarks and Appalachia) for the graduate student. 3(3-0) D

**HST 730 Seminar in American History**

Prerequisite: HST 701. In-depth study of a chosen topic as well as the historiography of the topic for graduate students. 3(3-0), D

**HST 740 Proseminar in European History**

Recommended Prerequisite: HST 701. Readings in chosen periods and topics in European history for the graduate student. May be repeated once for credit. 3(3-0), D

**HST 750 Seminar in European History**

Prerequisite: HST 701. In-depth study of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated for credit with department consent. 3(3-0), D

**HST 760 Proseminar in Latin American History**

Recommended Prerequisite: HST 701. Readings in chosen periods and topics in Iberian and Latin American history for the graduate student. May be repeated once for credit. 3(3-0), D

**HST 770 Proseminar in Ancient Near East History**

Recommended Prerequisite: HST 701. Readings in chosen periods and topics in Ancient Near East history for graduate student. May be repeated once for credit. 3(3-0), D

**HST 775 Recommended Prerequisite: HST 701. Proseminar in the Middle East**

This proseminar in the Middle East introduces students to the historiography of the medieval Middle East (defined as the Arab heartland, Persia, and Anatolia), familiarizing them with the range of primary and secondary sources available for study, methodological approaches to using them, and the most important debates in modern scholarship generated by them. Through seminar discussions and debates based on intensive reading, students learn and practice historical method, tailored to this field. Among the topics covered in this course are the nature (and pitfalls) of medieval Arabic texts; how archives are created; the development of medieval Islamic historiography by contemporary Muslim and modern historians; the problematic of medieval political theory in the Arab, Persian, and Turkish worlds; the development of classical Islamic institutions; alternative state forms and how they developed; the impact of developments in the Middle East for world history; and the transition in this region to the modern era. 3(3-0) D

**HST 780 Seminar in World History**

Prerequisite: HST 701. In-depth study, in African, East Asian, Latin American, or Middle Eastern history, of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated up to 6 hours for credit with departmental consent. 3(3-0), S

**HST 783 Women's History: The Use and Understanding of Sources**

Recommended Prerequisite: HST 701. 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. 3(3-0), D

**HST 784 The American Revolution: The Use and Understanding of Sources**

Recommended Prerequisite: HST 701. 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. 3(3-0), D

**HST 785 The Civil War in Missouri: The Use and Understanding of Sources**

Recommended Prerequisite: HST 701. 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. 3(3-0), D

**HST 786 American Social History: The Use and Understanding of Sources**

Recommended Prerequisite: HST 701. 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. 3(3-0), D

**HST 787 American Education: The Use and Understanding of Sources**

Recommended Prerequisite: HST 701. 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. 3(3-0), D

**HST 790 Proseminar in World History**

Recommended Prerequisite: HST 701. Readings in chosen periods and topics in world history, comparative history, or a study involving at least two global areas such as diaspora studies. May be repeated up to 9 hours. 3(3-0), D

**HST 792 Primary Source Proseminar in World History**

Recommended Prerequisite: HST 701. Students will study seminal primary and secondary sources related to world history, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing and teaching of history. 3(3-0) D

**HST 796 Readings in History**

Prerequisite: 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. 1-3, D

**HST 799 Thesis**

Prerequisite: permission of Director of History Graduate Program. Independent research and study connected with preparation of

thesis. 1-6, D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Humanities and Public Affairs > Department of Military Science

## Department of Military Science

Freudenberger House, Room 28, Phone: (417) 836-5791, Fax: (417) 836-5792  
Email: [MilitaryScience@missouristate.edu](mailto:MilitaryScience@missouristate.edu)  
Website: <http://www.missouristate.edu/milsci>  
Department Head: Professor LTC Kirby A. Hanson, M.A.

### Faculty (as of July 15, 2011)

**Assistant Professors:** CPT Timothy McCloud; 1LT Ray Emerit; MAJ (Ret) Doug Schenck, M.S.

**Senior Military Instructor:** MSG David Dowell

**Instructors:** 1LT Gary Fleck; SFC Robert Lewis; SFC James Young

### General Information

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. Basic Course classes are open to all students. They each provide academic credit hours and may fulfill elective credit in any program. 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.

**Basic Course:** The Basic Course encompasses two freshman and two sophomore Military Science classes. There are prerequisites for some of the classes, please check Basic Course course descriptions 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. Students wishing to contract as a Basic Course cadet will receive a monthly stipend of \$300-\$350. 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 to 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 \$450-\$500 per month (tax-free) for 10 months of both their Junior and Senior years. Additionally, Advanced Course students attend a four-week Leader Development Assessment Course (LDAC), normally in the summer between their Junior and Senior year. Students receive a salary while at training, have meals and housing provided by the Army, and receive paid travel to and from the training. Upon completion of the four Advanced Course classes, and a bachelor's degree, students are commissioned as Second Lieutenants in the U.S. Army. Students may compete to fulfill their military service full time in the active component of the U.S. Army or opt to serve in the Reserve component of the Army National Guard or Army Reserves.

All students in the Advanced Courses, prior to graduation, are required to take U.S. Military History, 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, ROTC Scholarship students, and contracted cadets must participate in a regularly scheduled physical fitness program and Leadership Labs.

**Scholarships:** The Army ROTC Scholarship program is open to all qualified, full time University students. Two four-year scholarships are awarded each year on a best qualified basis. Students **need not be enrolled** in Military Science classes to compete. Army ROTC Scholarships pay full tuition, required fees and book costs (\$1,200/yr), plus a monthly tax free stipend of \$300-\$500 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 in the active or reserve components of the U.S. Army. Information on other available scholarships can be obtained from the department or on the Military Science web site.

**Leader's Training Course (LTC):** This course is ideal for incoming juniors, first-year masters students or transfer students who have decided they want an Army officer's commission but have never taken a Military Science course, or had any previous military training. These students can still qualify for entry into the Advanced Course provided they have exactly two academic years remaining in their degree program. Attendance at LTC is four weeks in the summer and provides equivalent credit for the Basic Course, qualifying students for the Advanced Course. Students who elect to attend LTC also receive a salary, have meals and housing provided by the Army, and receive paid travel to and from the training. As a special incentive, students can compete for two-year Army ROTC Scholarships. These scholarships are awarded on the basis of college academic record, leadership potential, and LTC performance. As of 2010, all students who successfully complete LTC and contract into the ROTC Advanced Course receive a \$5,000 signing bonus. Students can also receive 5 credit hours for attending LTC (see MIL 225).

**Veterans:** Student 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, and with 60 credit hours. This

option (called advanced placement) enables most 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 \$300-\$500 tax free stipend from ROTC.

**Uniforms and Texts:** Textbooks are supplied for all ROTC courses. Freshman and Sophomore students are furnished uniforms as needed. All contracted cadets/students are provided uniforms and equipment as necessary.

**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)

## Military Science Courses

### MIL 101 Introduction to Military Science

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. 2(2-0) F,S

### MIL 102 Introduction to Basic Military Skills

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. 2(2-0) F,S

### MIL 125 Leadership Fitness

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. 1(0-3) D

### MIL 211 Basic Military Skills and Techniques

Prerequisite: permission. Introduction to techniques of survival in various situations and climates, and pistol marksmanship. 2(2-1) F

### MIL 212 Military Fundamentals Practicum

Prerequisite: 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. 2(2-1) S

### MIL 220 Basic Military Science Fundamentals

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. 2-5 Su

### MIL 225 Basic Military Science Practicum

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. 5 F,Su

### MIL 301 Military Leadership and Operations

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. 3(3-1) F

### MIL 302 Military Skill Building

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. 3(3-1) S

### MIL 325 Advanced Military Science Practicum

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. 5(5-0) F,Su

**MIL 411 Military Qualification Skills for the Advanced Cadet**

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. 3(3-1) F

**MIL 412 Transition from Cadet to Lieutenant**

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. 3(3-1) S

**MIL 496 Readings/Research in Military Science**

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. 1-3 F,S

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Humanities and Public Affairs > Department of Philosophy

## Department of Philosophy

Strong Hall, Room 307, Phone: (417) 836-5650, Fax: (417) 836-4775  
Email: [Philosophy@missouristate.edu](mailto:Philosophy@missouristate.edu)  
Website: <http://www.missouristate.edu/phi>  
Department Head: Professor Pamela R. Sailors, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Daniel A. Kaufman, Ph.D.; Jack Knight, Ph.D.; Joseph Martire, Ph.D.; Johnny Washington, Ph.D.

**Assistant Professors:** Andrew B. Johnson, Ph.D.; Ralph E. Shain, Ph.D.

**Emeritus Professors:** William R. Brown, Ph.D.; Bertrand P. Helm, Ph.D.; Jon S. Moran, Ph.D.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Majors

#### Philosophy (Non-Comprehensive)

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements\*

1. Logic and Analytical Reasoning: PHI 305(3)
2. Ethics and Social Thought. Select three hours from Moral Theory: PHI 340(3), 341(3), 345(3) and three hours from Applied Ethics: PHI 302(3), 342(3), 513(3)
3. History of Philosophy: PHI 306(3) and 310(3)
4. Theory of Knowledge and Metaphysics. Select three hours from: PHI 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), 350(3); PHI 330(3) or PLS 330(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 (or second major)

D. A BA major in Philosophy may be combined with the Ethics and Social Policy minor only where students satisfy the stated course requirements for both major and minor and complete additional upper division hours for the major, as needed, wherever courses satisfy the major requirements are used to satisfy the minor. Accordingly, a student combining a BA major in Philosophy with the Ethics and Social Policy minor must complete at least 51 hours of Philosophy courses.

E. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

F. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

#### Philosophy (Non-Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements\*

1. Logic and Analytical Reasoning: PHI 305(3)
2. Ethics and Social Thought. Select three hours from Moral Theory: PHI 340(3), 341(3), 345(3) and three hours from Applied Ethics: PHI 302(3), 342(3), 513(3)
3. History of Philosophy: PHI 306(3) and 310(3)
4. Theory of Knowledge and Metaphysics. Select three hours from: PHI 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), 350(3); PHI 330(3) or PLS 330(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 (or second major)

D. A BS major in Philosophy may be combined with the Ethics and Social Policy minor only where students satisfy the stated course requirements for both major and minor and complete additional upper division hours for the major, as needed, wherever courses satisfy the major requirements are used to satisfy the minor. Accordingly, a student combining a BS major in Philosophy with the Ethics and Social Policy minor must complete at least 51 hours of Philosophy courses.

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Ethics and Social Policy

Bachelor of Arts  
Bachelor of Fine Arts  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)  
Bachelor of Social Work

A. PHI 115(3), 340(3), 341(3), 345(3)

B. Complete at least two courses from among the following courses in Applied Ethics: PHI 302(3), 342(3), 513(3)

### 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 305.

B. 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.

C. Complete an additional nine hours of Philosophy courses. Minor requires a minimum of 18 hours including at least 12 hours of upper division credit.

## Philosophy Courses

### PHI 105 Critical Thinking

General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

### PHI 110 Introduction to Philosophy

General Education Course (Self-Understanding/Humanities Perspective). 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. 3(3-0) F,S

### PHI 115 Ethics and Contemporary Issues

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F,S

### PHI 197 Perspectives in Philosophy

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. 1-3 D

### PHI 300 Philosophical Ideas in Literature

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. 3(3-0) D

### PHI 302 Environmental Ethics

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? 3(3-0) D

**PHI 305 Elements of Symbolic Logic**

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. 3(3-0) S

**PHI 306 History of Western Philosophy: Ancient**

Historical study of ancient philosophy based on the reading of representative writings of major philosophers. 3(3-0) F

**PHI 310 History of Western Philosophy: Modern**

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. 3(3-0) D

**PHI 312 Contemporary Continental Philosophy**

An examination of contemporary European philosophical thought including significant writings from important individual philosophers and from major movements of the period, such as Existentialism, Phenomenology, Frankfurt School, Structuralism and/or Deconstruction. 3(3-0) D

**PHI 314 Asian Philosophy**

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. 3(3-0) D

**PHI 315 Philosophy of Religion**

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. 3(3-0) F

**PHI 319 Feminist Philosophy**

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. 3(3-0) D

**PHI 320 Aesthetics**

Representative philosophical theories concerning the nature of aesthetic value; the bases of judgments in the arts and literature. Primarily intended for upper division students concentrating in the fine arts, literature or philosophy. 3(3-0) F

**PHI 325 Philosophy of Science: Explanation, Objectivity and Progress**

This course examines the aims, nature and scope of explanations and theories within the natural, social and behavioral sciences, and it distinguishes such efforts from non-scientific modes of explanation. Critical analyses of intellectual standards for scientific explanation and for practices of collegial review serve (i) to define the kinds of events that are amenable to scientific explanation, (ii) to guide the construction, testing and progressive validation of scientific explanations, and (iii) to clarify the character of the "professional expertise" that scientists contribute to the broader social community and its public endeavors. 3(3-0) D

**PHI 330 Introduction to Political Theory**

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. Identical with PLS 330. Cannot receive credit for both PHI 330 and PLS 330. 3(3-0) F

**PHI 335 Mind, Language and Reality**

The course examines significant philosophical work within the analytical (Anglo-American) tradition bearing upon relationships between thought, language and reality. In tracing and critically assessing contemporary developments in the "philosophy of mind" and "philosophy of language", the course addresses foundational questions about the nature of language and the diverse functions it serves both in private mental life and in public activities, including social, political, philosophical and scientific enterprises. 3(3-0) D

**PHI 340 Philosophy of Law**

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. 3(3-0) D

**PHI 341 Social Philosophy**

This course examines foundational social, political and economic issues under the guidance of contemporary ethical and social theories and against the background of evolving constitutionally-governed democratic culture. It addresses both (i) theoretical issues concerning aims, scope and justification for political frameworks and social institutions, and (ii) substantive issues in relation to ideals of equality, liberty and justice raised by competing policy alternatives. Readings will include works from influential contemporary philosophers, and principled arguments from landmark US Supreme Court rulings. 3(3-0) D

**PHI 342 Global Ethics**

As the planet becomes increasingly interconnected, and increasingly burdened by a burgeoning population, issues of global ethics have taken on a heightened urgency. This course examines competing perspectives on a variety of ethical issues with global dimensions, such as human rights, world hunger and poverty, overpopulation, sweatshops, immigration, nationalism, war, terrorism, genocide, and global warming. Students should emerge better prepared to act as global citizens capable of nuanced moral reasoning. 3(3-0), D

**PHI 345 Theories of Ethics**

This course examines the nature of ethics and the principles of moral actions and decisions. 3(3-0) D

**PHI 350 Philosophy and Public Affairs**

Addresses three elements of MSU's public affairs mission, with a special focus on the ethical leadership aspect. Dividing the concept, the course will begin with discussion of the "ethical" prong, examining several traditional approaches to character information and ethical decision-making. Moving to the leadership prong, students will look at issues of justice and communication. Synthesizing the two, the course will conclude with examination of how one exhibits ethical leadership in relationships with friends and family, and in the work environment, and in the global sphere. Discussion of these relationships will be connected to the elements of cultural competence and community engagement. Throughout, the focus will be on the role of influence, integrity, and individual responsibility and obligations in the practice of ethical leadership. 3(3-0), D

**PHI 397 Seminar in Philosophy**

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. 1-4 D

**PHI 496 Philosophy Tutorial**

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. 2-4 D

**PHI 513 Bioethics**

An introduction to central ethical questions that arise in the area of bioethics, 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. May be taught concurrently with PHI 613. Cannot receive credit for both PHI 613 and PHI 513. 3(3-0) D

**PHI 596 Selected Topics in Philosophy**

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. May be taught concurrently with PHI 696. Cannot receive credit for both PHI 696 and PHI 596. 2-4 D

**PHI 613 Bioethics**

An introduction to central ethical questions that arise in the area of bioethics, 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. May be taught concurrently with PHI 513. Cannot receive credit for both PHI 513 and PHI 613. 3(3-0), D

**PHI 696 Selected Topics in Philosophy**

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. May be taught concurrently with PHI 596. Cannot receive credit for both PHI 596 and PHI 696. 2-4, D

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## Department of Political Science

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Email: [PoliticalScience@missouristate.edu](mailto:PoliticalScience@missouristate.edu)  
Website: <http://polsci.missouristate.edu>  
Department Head: Professor George E. Connor, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Mark C. Ellickson, Ph.D.; Dennis V. Hickey, Ph.D.; Joel W. Paddock, Ph.D.; Yuhua Qiao, Ph.D.; Mark E. Rushefsky, Ph.D.; Patrick G. Scott, Ph.D.

**Associate Professors:** Brian R. Calfano, Ph.D.; James B. Kaatz, Ph.D.; Gabriel Ondetti, Ph.D.; Kevin Pybas, Ph.D.; David Romano, Ph.D.

**Assistant Professors:** Cigdem Cidam, Ph.D.; David E. A. Johnson, Ph.D.

**Emeritus Professors:** Gordon D. Friedman, Ph.D.; Beat Kernen, Ph.D.; Kant B. Patel, Ph.D.; Robert Peace, M.G.A.; Denny E. Pilant, Ph.D.

### Accreditation

National Association of Schools of Public Affairs and Administration (NASPAA) – Public Administration, M.P.A.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Master of Public Administration degree; and Master of Global Studies degree.

Refer to the [Graduate Catalog](#) for more information.

Courses are offered toward the option in Homeland Security within the Master of Science degree in Administrative Studies and certificate in Homeland Security and Defense. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Public Administration Degree

Eligible Missouri State University majors in public administration or political science may apply for preliminary acceptance into the Master of Public Administration program after admission requirements for the accelerated master's option have been satisfied. If accepted, the undergraduate requirements for PLS 673 (Policy Analysis), PLS 676 (Quantitative Methods of Political Science and Public Policy), and PLS 781 (In-service Training in Public Administration) can be counted for both the undergraduate and graduate degrees (Mixed Credit).

In addition, PLS 771 (Seminar in Public Administration) can be taken during the student's senior year and can also count toward both degrees. This option gives exceptional undergraduate students the opportunity to complete their bachelor's and master's degrees in ten semesters and a summer. Contact the Director of the MPA Program for further information and guidelines.

#### Accelerated Master of Global Studies Degree

Eligible Missouri State University majors in Global Studies, Political Science, and other relevant disciplines may apply for preliminary acceptance into the Master of Global Studies (MGS) program after admission requirements for the accelerated master's option have been satisfied. If accepted, both the undergraduate and graduate requirements for dual-listed courses (500 and 600/700 level courses) must have been fulfilled to be counted for both the undergraduate and graduate degrees (Mixed Credit). This option gives exceptional undergraduate students the opportunity to complete their bachelor's and master's degrees in ten semesters and a summer. Contact the Department of Political 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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

#### University Certificate (graduate)

A graduate level certificate program is available in Public Management. Refer to the Graduate Catalog for more information.

### General Information

**Missouri Constitution Study Requirement (Senate Bill No. 4):** Students with credit for PLS 101 that did not include a study of the Missouri constitution must complete PLS 103(1) to meet this requirement. See "General Baccalaureate Degree Policies and Requirements" section of catalog for information.

## Majors

### Political Science (Non-Comprehensive)

#### Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (36 hours)

1. Core Requirements\* (21 hours)
  - a. PLS 169(3), 205(3), 232(3), 255(3); PLS 330(3) or PHI 330(3); PLS 492(0)
  - b. One of the following: PLS 316(3), 317(3), 319(3), 413(3), 414(3)
  - c. One of the following: PLS 515(3), 517(3), 518(3)
2. Electives: Complete 15 hours of electives from at least three of the following subfields:
  - a. American Government and Politics: PLS 316(3), 317(3), 319(3), 399(3), 413(3), 414(3)
  - b. International Politics: PLS 301(3), 437(3), 535(3), 547(3)
  - c. Comparative Governments and Politics: PLS 338(3), 343(3), 544(3), 545(3), 546(3), 548(3), 550(3)
  - d. Public Administration: PLS 102(3), 315(3), 351(3), 498(3), 555(3), 573(3)
  - e. Political Theory: PLS 561(3), 563(3), 565(3), 567(3)
  - f. Public Law: PLS 419(3), 451(3), 515(3), 517(3), 518(3)

*Note: PLS 493, 494, 495, 496, 497 will be assigned to fields according to topic. No more than six hours will be counted toward the major from PLS 399, 493, 494, 498.*

*\*Courses counted toward core requirements will not also count toward elective requirements.*

C. Minor Required (or second major)

D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Political Science (Non-Comprehensive)

#### Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (39 hours)

1. Core Requirements\* (24 hours)
  - a. PLS 169(3), 205(3), 232(3), 255(3); PLS 330(3) or PHI 330(3); 492(0), 576(3)
  - b. One of the following: PLS 316(3), 317(3), 319(3), 413(3), 414(3)
  - c. One of the following: PLS 515(3), 517(3), 518(3)
2. Electives: Complete 15 hours of electives from at least three of the following subfields:
  - a. American Government and Politics: PLS 316(3), 317(3), 319(3), 399(3), 413(3), 414(3)
  - b. International Politics: PLS 301(3), 437(3), 535(3), 547(3)
  - c. Comparative Governments and Politics: PLS 338(3), 343(3), 544(3), 545(3), 546(3), 548(3), 550(3)
  - d. Public Administration: PLS 102(3), 315(3), 351(3), 498(3), 555(3), 573(3)
  - e. Political Theory: PLS 561(3), 563(3), 565(3), 567(3)
  - f. Public Law: PLS 419(3), 451(3), 515(3), 517(3), 518(3)

*Note: PLS 493, 494, 495, 496, 497 will be assigned to fields according to topic. No more than six hours will be counted toward the major from PLS 399, 493, 494, 498.*

*\*Courses counted toward core requirements will not also count toward elective requirements.*

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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 338(3), 343(3), 437(3), 544(3), 545(3), 546(3), 547(3), 548(3), 555(3), 565(3); ECO 565(3); GRY 323(3), 507(3)

No more than six hours taken for the BA or BS Political Science major can be counted toward the International Relations minor.

### **Political Science**

Bachelor of Arts  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)  
Bachelor of Social Work

A. Complete courses from at least three of the following six political science fields to bring total to a minimum of 18 hours:

1. American Government and Politics: PLS 316(3), 317(3), 319(3), 399(3), 413(3), 414(3)
2. International Politics: PLS 232(3), 301(3), 437(3), 535(3), 546(3), 547(3)
3. Comparative Politics: PLS 205(3), 338(3), 343(3), 544(3), 545(3), 547(3), 548(3), 550(3)
4. Public Administration: PLS 102(3), 255(3), 315(3), 351(3), 355(3), 498(3), 555(3), 573(3)
5. Political Theory: PLS 330(3) or PHI 330(3), PLS 561(3), 563(3), 565(3), 567(3)
6. Public Law: PLS 419(3), 451(3), 515(3), 517(3), 518(3)

Note: PLS 169 and 576 will count as minor electives.

### **Public Administration**

Bachelor of Science in Education  
(Non-Certifiable)  
Bachelor of Social Work

A. Required Core Courses (12 hours): PLS 102(3), 255(3), 315(3), 351(3)

B. Elective Courses (6 hours): Complete any two of the following courses: ACC 532(3); ECO 325(3), 355(3), 515(3); PLS 355(3), 498(3), 555(3)

No more than six hours taken for the B.A. or B.S. Political Science major can be counted toward the Public Administration minor.

### **Public Law**

Bachelor of Arts  
Bachelor of Science  
Bachelor of Social Work

A. PLS 419(3) or 451(3); 515(3), 517(3), 518(3)

B. Complete six hours from the following list to total 18 hours: CRM 210(3); HST 517(3); LAW 231(3), 531(3); PHI 340(3); PLS 419(3), 451(3), 493(1-3), 567(3); PSY 320(3); SOC 380(3)

No more than six hours taken for the BA or BS Political Science major may be counted on the Public Law minor.

## **Political Science Courses**

### **PLS 101 American Democracy and Citizenship**

General Education Course (Public Affairs/American Studies). This 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. 3(3-0) F,S

### **PLS 102 Introduction to American Public Policy**

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. 3(3-0) F,S

### **PLS 103 Missouri Government and Politics**

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 met the Missouri Constitution Study Requirement (Senate Bill # 4) either through completion of PLS 101 at Missouri State or completion of a transfer course that fulfills the requirement, are precluded from taking PLS 103. 1(1-0) F,S

### **PLS 169 Introduction to Political Science**

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. 3(3-0) F,S

### **PLS 205 Introduction to Comparative Government**

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. 3(3-0) F,S

### **PLS 232 International Relations**

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. 3(3-0) F,S

**PLS 255 Public Administration**

Prerequisite: PLS 101. American administrative organization and activities; centralization, decentralization and relation between the administration and other branches of government. 3(3-0) F,S

**PLS 300 Service Learning in Political Science**

Prerequisite: 30 hours; and concurrent registration in a Political Science course designated as a service learning offering; and permission. 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. 1 F,S

**PLS 301 U.S. National Security**

This class examines American national security from the cultural, institutional and policy perspectives. It will pay close attention to those enduring factors that shape American defense policies as well as exploring developments that have modified America's approach to security. Moreover, in addition to studying the structure and operation of today's policymaking process, the course will investigate the way the process has evolved in the past fifty years and will analyze the way key policies are produced and implemented by the U.S. government. Finally, reflecting changes in the world and in the field of national security studies, the course will cover not only the traditional concerns of national security (e.g., creation and use of military force for physical security of the territorial-state), but also the definition and achievement of individual and global security in the face of non-military problems. 3(3-0) S

**PLS 315 Federalism and Intergovernmental Relations**

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. 3(3-0) F

**PLS 316 Political Parties, Elections and Interest Groups**

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. 3(3-0) F

**PLS 317 American Political Behavior**

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. 3(3-0) FE

**PLS 319 Women in Politics**

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. 3(3-0) SE

**PLS 330 Introduction to Political Theory**

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. Identical with PHI 330. Cannot receive credit for both PLS 330 and PHI 330. 3(3-0) F,S

**PLS 333 Model United Nations**

Prerequisite: permission. 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. 1(1-0) F

**PLS 338 Politics of Less Developed Countries**

This course offers a road introduction to the politics of poorer, or "less developed" countries, a category that includes about three-quarters of the world's sovereign states and the vast majority of the global population. It will focus on two major themes: the quest for rapid economic development and the challenge of establishing a democratic political system. Students will also learn about the politics of a number of individual countries in Africa, Asia and Latin America. 3(3-0) SO

**PLS 343 Post-Soviet Politics**

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. 3(3-0) SO

**PLS 351 Municipal Government and Administration**

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. 3(3-0) F

**PLS 355 Emergencies, Disasters and Catastrophes**

This survey course is designed to examine the wide range of public safety-related incidents from the daily emergencies handled by local government through disasters on the state levels to catastrophes on the national and international levels. The students will examine how these terms are defined, the role of public safety agencies (governmental, NPA and private) and how these incidents occurred and are managed. Students will be familiarized with various public safety services provided by municipal, state, and federal agencies. They will explore, via lectures, discussions, videos and readings, the provision of services, the role of public safety managers, municipal managers and elected officials. 3(3-0) D

**PLS 397 Mini Course in Political Issues**

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. 1(1-0) D

**PLS 399 Cooperative Education in Jefferson City**

Prerequisite: permission. Recommended Prerequisite: 2.50 GPA and junior or senior standing. 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. Restricted to Political Science majors and minors. Graded Pass/Not Pass only. 1-6 S

**PLS 413 The American Executive**

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. 3(3-0) S

**PLS 414 The Legislative Process**

Prerequisite: PLS 101. Theory, principles, procedures and problems of the legislative process in democratic societies; operation of American state and national legislatures. 3(3-0) FO

**PLS 419 The Judicial Process**

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. 3(3-0) FE

**PLS 437 International Organizations and Law**

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. 3(3-0) S

**PLS 451 Criminal Law and Its Enforcement**

An exploration of criminal law and how it is administered by law enforcement agencies. 3(3-0) FO

**PLS 492 Program Assessment**

Prerequisite: permission. Recommended Prerequisite: senior standing. Required assessment of undergraduate political science programs in the department. All students majoring in political science 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. 0 F,S

**PLS 493 Practicum in Political Science**

Prerequisite: permission. Recommended Prerequisite: 2.50 GPA and junior or senior standing. 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. Restricted to Political Science majors and minors. Graded Pass/Not Pass only. 1-3 D

**PLS 494 Professional Internship**

Prerequisite: permission. Recommended Prerequisite: 2.50 GPA and junior or senior standing. 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. Restricted to Political Science majors. Graded Pass/Not Pass only. 3-6 D

**PLS 495 Senior Honors Project in Political Science**

Prerequisite: permission. 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 Director of the Honors College. Variable Content Course. May be repeated to maximum of 6 hours total credit. 1-6 D

**PLS 496 Independent Study in Political Science**

Prerequisite: permission. Recommended Prerequisite: 2.50 GPA; and junior or senior standing. 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 and 3 semester hours of credit on a minor in Political Science or Public Administration. Written work will be required in PLS 496 in addition to reading assignments and/or research activities. 1-3 D

**PLS 497 Special Topics**

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 9 hours. Variable content course. 1-3 D

**PLS 498 In-Service Training in Public Administration**

Prerequisite: permission. Recommended Prerequisite: 2.50 GPA and junior or senior standing. Supervised field work in an approved local, state, or national government agency including preparation of an acceptable formal report. Restricted to Political Science majors and minors. Graded Pass/Not Pass only. 3(3-0) F,S

**PLS 515 Constitutional Law I: Powers and Constraints**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. This course examines the powers and limitations of the United States government, including: the institutional authority of the legislative, executive, and judicial departments; separation of powers; federalism; the commerce power, taxing and spending authority, and economic liberties. A careful study of U.S. Supreme court decisions is emphasized, with particular focus on the political, moral, and social impact these decisions have had on life in America. 3(3-0) F

**PLS 517 Constitutional Law II: Liberties and Rights**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. This course examines the civil liberties and civil rights of individuals, including: religious liberty, freedom of speech, the right to privacy, protections against discrimination based on race, gender, and sexual-orientation, and voting and representation rights. A careful study of U.S. Supreme Court decisions is emphasized, with particular focus on the political, moral, and social impact these decisions have had on life in America. 3(3-0) S

**PLS 518 Constitutional Politics**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. The course examines the design and historical development of the U.S. Constitution. Emphasis is given to exploring the political and philosophical currents that have influenced the development of American constitutional law, with particular focus on: 1) the founding era; 2) Civil War era conflicts over the nation's founding principles; 3) the Progressive critique of the constitution; and 4) recent conservative and libertarian critiques of progressive constitutionalism. 3(3-0) S

**PLS 535 American Foreign Policy**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 635. Cannot receive credit for both PLS 635 and PLS 535. 3(3-0) F

**PLS 544 Government and Politics of the Middle East**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 644. Cannot receive credit for both PLS 644 and PLS 544. 3(3-0) FO

**PLS 545 Asian Politics**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 645. Cannot receive credit for both PLS 645 and PLS 545. 3(3-0) S

**PLS 546 Political Violence and Terrorism**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 646. Cannot receive credit for both PLS 646 and PLS 546. 3(3-0) D

**PLS 547 Politics of the European Union and Its Members**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 647. Cannot receive credit for both PLS 647 and PLS 547. 3(3-0) SE

**PLS 548 Latin American Politics**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. Broad introduction to the politics of Latin America. Although it will offer substantial historical background, the emphasis of the course will be on recent decades. To familiarize the student with some of the major general issues facing Latin America while also giving them a taste of its tremendous diversity. The course is structured around four basic topics: economic development, democratization, guerrilla movements and revolution, and drug trafficking. In the process of discussing these topics, various countries will be explored such as Brazil, Chile, Colombia, Cuba, Guatemala, and Mexico. A recurring theme will be the relationship between the United States and Latin America. May be taught concurrently with PLS 648. Cannot receive credit for both PLS 648 and PLS 548. 3(3-0) F

**PLS 550 Modern African Politics**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 650. Cannot receive credit for both PLS 650 and PLS 550. 3(3-0) FO

**PLS 555 Public Policy for a Global Environment**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 685. Cannot receive credit for both PLS 685 and PLS 555. 3(3-0) D

**PLS 561 Ancient Political Thought**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. 3(3-0) FO

**PLS 563 Modern Political Theory**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. 3(3-0) SO

**PLS 565 Contemporary Political Ideologies**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 642. Cannot receive credit for both PLS 642 and PLS 565. 3(3-0) SE

**PLS 567 American Political Thought**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. Political ideas in American institutional and historical development. An examination of the relations between American thought and political structures and processes. 3(3-0) D

**PLS 573 Policy Analysis**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 673. Cannot receive credit for both PLS 673 and PLS 573. 3(3-0) S

**PLS 576 Quantitative Methods of Political Science and Public Policy**

Prerequisite: PLS 101. Recommended Prerequisite: 50 hours. 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. May be taught concurrently with PLS 676. Cannot receive credit for both PLS 676 and PLS 576. 3(3-0) F,S

**PLS 635 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. May be taught concurrently with PLS 535. Cannot receive credit for both PLS 535 and PLS 635. 3(3-0), F

**PLS 642 Contemporary Political Ideologies**

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. May be taught concurrently with PLS 565. Cannot receive credit for both PLS 565 and PLS 642. 3(3-0), SE

**PLS 644 Government and Politics of the Middle East**

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. May be taught concurrently with PLS 544. Cannot receive credit for both PLS 544 and PLS 644. 3(3-0), FO

**PLS 645 Asian Politics**

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. May be taught concurrently with PLS 545. Cannot receive credit for both PLS 545 and PLS 645. 3(3-0), S

**PLS 646 Political Violence and Terrorism**

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. May be taught concurrently with PLS 546. Cannot receive credit for both PLS 546 and PLS 646. 3(3-0), D

**PLS 647 Politics of the European Union and Its Members**

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. May be taught concurrently with PLS 547. Cannot receive credit for both PLS 547 and PLS 647. 3(3-0), SE

**PLS 648 Latin American Politics**

Broad introduction to the politics of Latin America. Although it will offer substantial historical background, the emphasis of the course will be on recent decades. To familiarize the student with some of the major general issues facing Latin America while also giving them a taste of its tremendous diversity. The course is structured around four basic topics: economic development, democratization, guerrilla movements and revolution, and drug trafficking. In the process of discussing these topics, various countries will be explored such as Brazil, Chile, Colombia, Cuba, Guatemala, and Mexico. A recurring theme will be the relationship between the United States and Latin America. May be taught concurrently with PLS 548. Cannot receive credit for both PLS 548 and PLS 648. 3(3-0), F

**PLS 650 Modern African Politics**

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. May be taught concurrently with PLS 550. Cannot receive credit for both PLS 550 and PLS 650. 3(3-0), FO

**PLS 651 Administrative Law**

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. 3(3-0), D

**PLS 673 Policy Analysis**

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. May be taught concurrently with PLS 573. Cannot receive credit for both PLS 573 and PLS 673. 3(3-0), S

**PLS 676 Quantitative Methods of Political Science and Public Policy**

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. May be taught concurrently with PLS 576. Cannot receive credit for both PLS 576 and PLS 676. 3(3-0), F,S

**PLS 685 Public Policy for a Global Environment**

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. May be taught concurrently with PLS 555. Cannot receive credit for both PLS 555 and PLS 685. 3(3-0), D

**PLS 705 Seminar in Comparative Politics**

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 MGS 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. 3(3-0), F

**PLS 712 Seminar in American Politics**

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. 3(3-0), F

**PLS 713 Seminar in Foreign Policy Decisionmaking**

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. 3(3-0), S

**PLS 715 Comparative Public Administration**

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. 3(3-0), F

**PLS 717 Multidisciplinary Approaches to Homeland Security**

Examines the full spectrum of both homeland security and defense activities, the diverse responsibilities of the primary stakeholders, and current policies and practical efforts to develop and integrate homeland security and defense efforts nationwide. 3(3-0), D

**PLS 719 Strategic Planning and Organizational Imperatives in Homeland Security**

The attainment of homeland security goals is dependent on comprehensive planning and organization to integrate and mobilize all levels of government and private sector responses. This course critically analyzes these efforts. 3(3-0), D

**PLS 721 International Political Economy**

A general introduction to the politics of international economic relations, with a special emphasis on the extent, causes, and consequences of globalization. Covers such topics as trade, investment, aid, global warming, international institutions, and the political roots of economic development. May be taught concurrently with ECO 721. Students cannot receive credit for both PLS 721 and ECO 721. 3(3-0), S

**PLS 732 International Relations in Theory and Practice**

An examination of the principal paradigms and approaches in the study of international relations as they have evolved, particularly in the 20th 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. 3(3-0), F

**PLS 737 Seminar in International Organizations**

A study of the historical development and theoretical foundations of international organizations. Readings and research will emphasize recent issues and developments in both regional and global aspects in the organization of the international system. 3(3-0), S

**PLS 752 Public Personnel Management**

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. 3(3-0), F

**PLS 753 Management Techniques and Organizational Behavior**

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. 3(3-0), S

**PLS 754 Seminar in Health Policy**

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. 3(3-0), D

**PLS 756 Financial Management for State and Local Government**

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. 3(3-0), F

**PLS 757 Topics Seminar in Public Policy and Administration**

Topics course. The specific topics will change from semester to semester. May be repeated as topics change. 3(3-0), D

**PLS 759 Seminar in Administrative Management and Organizational Theory**

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. 3(3-0), D

**PLS 760 Management of Intergovernmental Relations**

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. 3(3-0), D

**PLS 761 Management of Nonprofit Organizations**

This course provides a general survey of nonprofit organizations. It will examine the historical, legal, ethical, and social environments in which nonprofit organizations operate. It will also discuss various aspects of nonprofit organization management, ranging from managing people and money to managing public relations and trust. The course will integrate theoretical and practical aspects of nonprofit management. The theoretical aspects will be achieved through readings and literature reviews. The practical side will come from guest speakers, field interviews, and hands-on assignments. 3(3-0) SO

**PLS 762 Public Policy and Program Evaluation**

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. 3(3-0), SO

**PLS 763 The Policy Process**

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. 3(3-0), D

**PLS 771 Seminar in Public Administration**

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. 3(3-0), F

**PLS 772 Introduction to Public Safety Services**

This course introduces students to the current principles and practices of public safety services from the theoretical and practitioner's perspective. We will look at how services are provided, management challenges, the levels of emergencies and disaster operations, preparedness, recovery and mitigation. 3(3-0) F

**PLS 773 Hazard Analysis, Mitigation, and Preparedness**

This course focuses on crucial actions taken in preparing the emergencies. All public safety agency work begins with a thorough analysis of the hazards faced whether they are from natural causes or manmade. The course will introduce students to various methods for conducting the hazard analysis regardless of whether for law enforcement, fire service, emergency medical services or 9-1-1. The class examines various methods to mitigate the occurrences of those incidents and how public safety agencies can prepare themselves and the public for when they occur. 3(3-0) S

**PLS 776 Local Public Service Delivery**

This course prepares students to provide management and guidance to various local government services such as public works, police, fire, parks, utilities, and human services. It covers issues of governance which enable various government and non-for-profit groups to cooperate in the delivery of these services. The focus is on management in medium and small-sized municipalities in both rural and urban settings. Extensive use of guest lectures and site visits are essential components of this course. 3(3-0) SE

**PLS 777 Local Government and Politics and Administration**

This course familiarizes students with a broad array of local government issues, structures, management concerns, and politics. Interwoven throughout the course is a discussion of the roles that professional administration and local politics play in everyday local government operations. The major focus will be on the decision making process of professional administrators as they attempt to bring both efficiency and effectiveness to local government. 3(3-0) SO

**PLS 778 Ethics and Leadership in the Public Sector**

This course examines the role and impact of leadership in public organizations, with particular focus on the ethical dimensions of leadership behavior. The course provides an overview of the knowledge, theory, and skills regarding leadership and professional ethics. Topics include charismatic and transformational leadership, leadership styles, the role of the leader in creating ethical climates and building effective ethical cultures, organizational change strategies, power and politics, and motivation strategies. Also covered are the ethical codes, standards, and practices promulgated by the American Society for Public Administration (ASPA) and the International City Management Association (ICMA). 3(3-0) S

**PLS 780 Independent Study in Political Science**

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. Normally, a student may take PLS 780 only once to fulfill the requirements of the non-thesis option or as part of the cognate field if pursuing the thesis option. 1-4, F,S

**PLS 781 In-Service Training in Public Administration**

Prerequisite: permission. Supervised field work in an approved local, state, or national governmental agency including preparation of an acceptable formal report. 3(3-0), F,S

**PLS 782 Internship/Practicum in International Field**

Prerequisite: permission of program director and department head. Supervised field work in a federal government agency, international governmental/non-governmental organization, multinational corporation, or equivalent. The course requirements include a formal report on the internship/practicum and evaluation by the supervisor. 3(3-0) F,S

**PLS 797 Special Topics in Global Affairs**

Prerequisite: permission. 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. Variable content course. May be repeated as topics change. 3(3-0), D

**PLS 799 Thesis**

Prerequisite: permission. Independent research and study connected with preparation of thesis. 1-6, D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Humanities and Public Affairs > Department of Religious Studies

## Department of Religious Studies

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Email: [ReligiousStudies@missouristate.edu](mailto:ReligiousStudies@missouristate.edu)  
Website: <http://www.missouristate.edu/relst>  
Department Head: Professor J. E. Llewellyn, Ph.D.

### Faculty (as of July 15, 2011)

**Blanche Gorman Strong Endowed Chair in Protestant Studies:** Associate Professor John Schmalzbauer, Ph.D.

**Professors:** Stephen C. Berkwitz, Ph.D.; Victor H. Matthews, Ph.D.; James C. Moyer, Ph.D.; Kathy J. Pulley, Ph.D.

**Associate Professors:** Martha L. Finch, Ph.D.; Mark D. Given, Ph.D.; John T. Strong, Ph.D.

**Assistant Professors:** Leslie A. Baynes, Ph.D.; Julia Watts Belser, Ph.D.; Austra Reinis, Ph.D.

**Instructors:** Lora J. Hobbs, M.A.; Micki A. Pulleyking, Ph.D.

**Emeritus Professors:** Stanley M. Burgess, Ph.D.; LaMoine F. DeVries, Ph.D.; Charles W. Hedrick, Ph.D.; Karl W. Luckert, Ph.D.; J. Ramsey Michaels, Th.D.

### Program Requirements and Restrictions

**General Education Course Restriction:** Students majoring in Religious Studies may **not** use REL 100, 101, 102, 131, or 210 toward the General Education requirements.

### Graduate Programs

The following graduate programs are available:

Religious Studies (Master of Arts).

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Arts degree in Religious Studies

Eligible undergraduate majors in Religious Studies or an equivalent department from an accredited institution may apply for early admission to the Master of Arts in Religious Studies. Once accepted for early admission, students will be able to take up to twelve (12) credit hours at the 600- and 700-level that apply to both their undergraduate and graduate programs (Mixed Credit). Refer to the Graduate Catalog or contact the Department of Religious Studies 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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

#### University Certificate (graduate)

A graduate level certificate program is available in Religious Studies for the Professions. Refer to the Graduate Catalog for more information.

### Majors

#### Religious Studies (Non-Comprehensive)

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) 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 350(3), 355(3), 357(3), 360(3), 540(3)
  - b. Biblical Studies: REL 312(3), 319(3), 320(3), 321(3), 323(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), 315(3), 332(3), 344(3), 345(3), 346(3), 365(3), 370(3), 530(3), 531(3);

REL 390(3) or 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 (or second major)

D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Religious Studies (Non-Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) 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 350(3), 355(3), 357(3), 360(3), 540(3)

b. Biblical Studies: REL 312(3), 319(3), 320(3), 321(3), 323(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), 315(3), 332(3), 344(3), 345(3), 346(3), 365(3), 370(3), 530(3), 531(3); REL 390(3) or 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 (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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.

## **Religion Courses**

### **REL 100 Introduction to Religion**

General Education Course (Self-Understanding/Humanities Perspective) that promotes the Public Affairs Mission. Investigates what religion is and does, compares culturally diverse religious ideas and practices. This course explores how religion influences the relationship between individual and community by examining religious ethical systems, and providing community engagement opportunities. 3(3-0) F,S

### **REL 101 Literature and World of the Old Testament/Hebrew Bible**

General Education Course (Culture and Society/Humanities Perspective). Explores the religion, life experiences, cultures, thoughts, and history of the ancient Israelites as found in their literature and artifacts. 3(3-0) F,S

### **REL 102 Literature and World of the New Testament**

General Education Course (Culture and Society/Humanities Perspective). An introduction to early Christian literature and the persons and movements that produced it in their Jewish and Greco-Roman contexts. 3(3-0) F,S

### **REL 103 History of the English Bible**

The ancient manuscripts of the Bible; early versions; the English Bible; evaluation of recent translations. 1(1-0) D

### **REL 131 Religion in America**

General Education Course (Culture and Society/Humanities Perspective). A historical survey of different religious groups in America and their contributions to American identity and values. Includes the connections between religious affiliation and race, ethnicity, gender, politics, the media, and other aspects of U.S. society and culture. 3(3-0) F,S

### **REL 197 Topics in Religious Studies**

Topics of general interest in the area of religious studies such as Humor in the Bible, Religion and Literature, Religion and Film. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. 1-3 D

### **REL 200 Religion in the News**



Increases students' awareness of the presence and relevance of religion in current events and examines the influence of the news media on shaping public awareness and opinion of religion-related issues. 1(1-0) D

**REL 210 Paths of World Religions**

General Education Course (Self-Understanding/Humanities Perspective). A global survey of religious movements, including Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, and Islam. Students will learn how these religions have affected individual and cultural identities in history and in the contemporary world. 3(3-0) F,S

**REL 312 The Hebrew Prophets**

Recommended Prerequisite: REL 101. A survey of the prophetic literature of ancient Israel in its social and historical contexts. 3(3-0) D

**REL 315 Native American Religions**

Recommended Prerequisite: REL 131. A survey of historical and contemporary Native American cultures and spiritualities, including Native responses to European contact and colonization. 3(3-0) D

**REL 319 The Bible and Film**

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. 3(3-0) D

**REL 320 Jesus of Nazareth**

Recommended Prerequisite: REL 102. Jesus as presented in the canonical gospels and other early sources with attention given to literary and historical issues. 3(3-0) F

**REL 321 Paul**

Recommended Prerequisite: REL 102. An introduction to the historical Paul and scholarly interpretation of his writings. 3(3-0) S

**REL 323 Apocalypses**

Prerequisite: REL 101 or REL 102. 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. 3(3-0) D

**REL 330 Judaism**

A survey of the history and religion of the Jewish peoples, including the Holocaust, the State of Israel, and modern Jewish movements. 3(3-0) D

**REL 332 Modern Religious Thought**

Examines ways modernity impacted philosophy of religion in Europe and North America in the twentieth century. Major movements studied may include: Existentialism (Nietzsche, Kierkegaard, Tillich); Process Thought (Whitehead); Feminism (Ruether, Daly); Deconstruction (Derrida, Caputo); and African American thought (King, Cone). 3(3-0) D

**REL 340 Christianity**

Surveys Christian history from the second century to the present, exploring how past events have led to the development of contemporary churches, denominations, beliefs, and practices. Major topics: Eastern Christianity, Medieval Christendom, the Protestant Reformation, the Enlightenment, and global Christianity in the twenty-first century. 3(3-0) D

**REL 344 New Religious Movements**

Prerequisite: REL 100 or REL 210. Often negatively designated by outsiders as "cults", New Religious Movements continue to emerge at a rapid rate. This course examines the histories, structures, beliefs, and impacts of such groups as the Church of Jesus Christ of Latter-day Saints, Nation of Islam, Scientology, Raelians, and others. 3(3-0) D

**REL 345 African American Religious Experience**

Recommended Prerequisite: REL 131. Explores the establishment and maintenance of African American religious institutions, particularly the Black Churches and their future development. 3(3-0) D

**REL 346 Sexuality and American Religion**

Recommended Prerequisite: REL 131. Examines historical and contemporary beliefs about sexuality as reflected in sexual practices and experiences, such as celibacy, marital and extra-marital sex, and homosexuality, in American Protestantism, Catholicism, Judaism, Islam, and Native American cultures. Also, the ways American social culture and religious attitudes about sexuality have influenced each other. 3(3-0) D

**REL 350 Islam**

Origin, expansion, and continuity of Islam, including pre-Islamic influences, Muhammad, Qur'an and Tradition (hadith), sects, ritual and law, community and worldview, prayer and mysticism. 3(3-0) D

**REL 355 Buddhism**

Recommended Prerequisite: REL 210. 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. 3(3-0) D

**REL 357 Religions of China and Japan**

Recommended Prerequisite: REL 210. An historical survey of the major religions from East Asia, with particular emphasis given to their doctrines, practices, and institutions. The course will focus on Confucianism, Daoism, Buddhism, and Shinto. Some consideration will also be given to Korean religious traditions, religion in contemporary East Asia, and popular religious traditions. Important themes include cultural adaptation and religious competition in East Asian religious history. 3(3-0) D



**REL 360 Hinduism**

Recommended Prerequisite: REL 210. An historical and thematic survey of the religions of India from the Vedic period to the present day. 3(3-0) D

**REL 362 Jesus and the Parable Tradition**

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. 3(3-0) D

**REL 365 The Life and Thought of Martin Luther King, Jr.**

Recommended Prerequisite: REL 131. 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. 3(3-0) S

**REL 370 Women and Religion**

Exploration of women's roles in Christianity and other religions. Alienation from places of power has had profound implications for the personal, social, political, economic, and religious aspects of women's existence. Course will examine patterns of religious domination of women and explore possibilities for transformation. 3(3-0) F,S

**REL 385 Religious Studies Service Learning**

Prerequisite: 30 hours, concurrent registration in a Religious Studies course designated as a service learning offering. Designed to provide a learning environment for research and reflection on the meaning of public and community service, this course is intended to strengthen human communities by modeling an ethos of service and integrating service into the Religious Studies curriculum. May be repeated. 1(0-2) D

**REL 390 Religion in Society**

Examines the relationship between religion and its social context. Students will explore the social nature of individual religious institutions. The relationship between religion and modernity will be studied. The course will pay special attention to the role of religion in American society, as well as the religious dimensions of class, gender, region, and race/ethnicity. Identical with SOC 390. Cannot receive credit for both REL 390 and SOC 390. 3(3-0), D

**REL 397 Religious Studies Topics**

Recommended Prerequisite: 3 hours in Religious Studies. Selected topics of general interest in Religious Studies. Examples: Introduction to Archaeology and the Bible, Women in the Bible, Dead Sea Scrolls, the Holocaust, C. S. Lewis, Food and American Religion. May be repeated, as topics change, to a maximum of 6 hours. Variable content course. 1-3 D

**REL 399 Independent Study**

Prerequisite: 9 hours in Religious Studies and permission of instructor. Independent study of a Religious Studies topic related to student's major or special interest. Before registering for the course, student and instructor must sign an agreement that details the course requirements. May be repeated to a total of 6 hours. Variable content course. 1-3 F,S

**REL 510 Topics in Old Testament Studies**

Prerequisite: 50 hours. Recommended prerequisite: REL 101. 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. May be taught concurrently with REL 615. Cannot receive credit for both REL 615 and REL 510. 3(3-0) D

**REL 520 Topics in New Testament Studies**

Prerequisite: 50 hours. Recommended Prerequisite: REL 102. 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. May be taught concurrently with REL 625. Cannot receive credit for both REL 625 and REL 520. 3(3-0) D

**REL 530 Topics in Religion, Self, and Society**

Prerequisite: 50 hours. Recommended Prerequisite: REL 100 or REL 131. Explores advanced issues in the study of religion as a component of cultural life including issues of gender, race, and ethnicity. Examples of topics: Religion and Politics; Religion, Media, and Popular Culture; Religion and Visual Culture; American Religious Communities; Lived Religion; Bible Belt Religion; Food and Religion; Women and Religion. Variable content course. May be repeated, as topics change, to a maximum of 9 hours. May be taught concurrently with REL 635. Cannot receive credit for both REL 635 and REL 530. 3(3-0) D

**REL 531 Ozarks Religion**

Prerequisite: 50 hours. Recommended Prerequisite: REL 131 or REL 390 or SOC 390 or HST 375 or ENG 385. Explores the rich and varied terrain of Ozarks religious life, focusing on the impact of social change. This theme is explored through readings on rural and urban communities, Protestant revivalism, folklore and traditional practices, Ozarks Jewish life, Bible Belt Catholicism, Branson tourism, and the new immigrants. Students will use the methods of oral history interviewing and field observation to make sense of Ozarks religion. May be taught concurrently with REL 636. Cannot receive credit for both REL 531 and REL 636. 3(3-0) D

**REL 540 Topics in the History of Religions**

Prerequisite: 50 hours. Recommended Prerequisite: REL 210. Studies of advanced topics in comparative religions or in the history of a particular region or religious tradition. Topics may include material ranging from ancient history to the present day. Examples: Mysticism, Colonialism, Religion and Culture, Yoga, Fundamentalism. Variable content course. May be repeated, as topics change, to a maximum of 9 hours. May be taught concurrently with REL 645. Cannot receive credit for both REL 645 and REL 540. 3(3-0) D

**REL 550 Topics in the History of Judaism and Christianity**

Prerequisite: 50 hours. Recommended Prerequisite: RE: 330 or REL 340. Selected topics of advanced content in Christianity and Judaism. Examples: Death and Dying in the Christian Tradition; Spirituality in Christianity; Women in the History of Christianity; Reformation of the Sixteenth Century; Thought of Martin Luther; Eastern Christianity; Ritual in Orthodoxy, Catholicism and Protestantism. Variable content course. May be repeated up to 9 hours as topics change. May be taught concurrently with REL 655. Cannot receive credit for both REL 655 and REL 550. 1-3 D

**REL 570 Archaeology and the Old Testament/Hebrew Bible**

Prerequisite: 50 hours. Recommended prerequisite: REL 101. Archaeological discoveries in their relation to the literary, cultural, and religious background of the Old Testament/Hebrew Bible. Methods and objectives of archaeological research, including a brief history of Near Eastern archaeology. May be taught concurrently with REL 675. Cannot receive credit for both REL 675 and REL 570. 3(3-0) D

**REL 571 Archaeology and the New Testament**

Prerequisite: 50 hours. Recommended Prerequisite: REL 102. Archaeological discoveries in their relation to the literary, cultural, and religious background of the New Testament. Includes methods and objectives of archaeological research. May be taught concurrently with REL 676. Cannot receive credit for both REL 676 and REL 571. 3(3-0) D

**REL 580 Theories of Religion**

Prerequisite: 60 hours and permission. This required course for majors surveys influential theories of religion from the Enlightenment to the present. Students will write a major research paper involving theoretical perspectives learned in the course. May be taught concurrently with REL 685. Cannot receive credit for both REL 685 and REL 580. 3(3-0) F

**REL 615 Topics in Old Testament Studies**

Recommended Prerequisite: REL 101. 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. May be taught concurrently with REL 510. Cannot receive credit for both REL 510 and REL 615. 3(3-0) D

**REL 625 Topics in New Testament Studies**

Recommended Prerequisite: REL 102. 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. May be taught concurrently with REL 520. Cannot receive credit for both REL 520 and REL 625. 3(3-0) D

**REL 635 Topics in Religion, Self, and Society**

Recommended Prerequisite: REL 100 or REL 131. Explores advanced issues in the study of religion as a component of cultural life including issues of gender, race, and ethnicity. Examples of topics: Religion and Politics; Religion, Media, and Popular Culture; Religion and Visual Culture; American Religious Communities; Lived Religion; Bible Belt Religion; Food and Religion; Women and Religion. Variable content course. May be repeated, as topics change, to a maximum of 9 hours. May be taught concurrently with REL 530. Cannot receive credit for both REL 530 and REL 635. 3(3-0) D

**REL 636 Ozarks Religion**

Recommended Prerequisite: REL 131 or REL 390 or SOC 390 or HST 375 or ENG 385. Explores the rich and varied terrain of Ozarks religious life, focusing on the impact of social change. This theme is explored through readings on rural and urban communities, Protestant revivalism, folklore and traditional practices, Ozarks Jewish life, Bible Belt Catholicism, Branson tourism, and the new immigrants. Students will use the methods of oral history interviewing and field observation to make sense of Ozarks religion. May be taught concurrently with REL 531. Cannot receive credit for both REL 636 and REL 531. 3(3-0) D

**REL 645 Topics in the History of Religions**

Recommended Prerequisite: REL 210. Studies of advanced topics in comparative religions or in the history of a particular region or religious tradition. Topics may include material ranging from ancient history to the present day. Examples: Mysticism, Colonialism, Religion and Culture, Yoga, Fundamentalism. Variable content course. May be repeated, as topics change, to a maximum of 9 hours. May be taught concurrently with REL 540. Cannot receive credit for both REL 540 and REL 645. 3(3-0) D

**REL 655 Topics in the History of Judaism and Christianity**

Recommended Prerequisite: REL 330 or REL 340. Selected topics of advanced content in Christianity and Judaism. Examples: Death and Dying in the Christian Tradition; Spirituality in Christianity; Women in the History of Christianity; Reformation of the Sixteenth Century; Thought of Martin Luther; Eastern Christianity; Ritual in Orthodoxy, Catholicism and Protestantism. Variable content course. May be repeated, as topics change, to a maximum of 9 hours. May be taught concurrently with REL 550. Cannot receive credit for both REL 550 and REL 655. 1-3 D

**REL 675 Archaeology and the Old Testament/Hebrew Bible**

Recommended Prerequisite: REL 101. Archaeological discoveries in their relation to the literary, cultural, and religious background of the Old Testament/Hebrew Bible. Methods and objectives of archaeological research, including a brief history of Near Eastern archaeology. May be taught concurrently with REL 570. Cannot receive credit for both REL 570 and REL 675. 3(3-0) D

**REL 676 Archaeology and the New Testament**

Recommended Prerequisite: REL 102. Archaeological discoveries in their relation to the literary, cultural, and religious background of the New Testament. Includes methods and objectives of archaeological research. May be taught concurrently with REL 571. Cannot receive credit for both REL 571 and REL 676. 3(3-0) D

**REL 685 Seminar in Religious Studies**

Prerequisite: permission of department head. This required course for majors surveys influential theories of religion from the Enlightenment to the present. Students will write a major research paper involving theoretical perspectives learned in the course. May be taught concurrently with REL 580. Cannot receive credit for both REL 580 and REL 685. 3(3-0) F

**REL 710 Basic Issues in South Asian Religions**

A survey of major ideas and practices associated with the religions of South Asia from early history to the present. Important theories and critical issues related to such concepts as colonialism, gender, nationalism, and text will be examined to orient students in the study of South Asian religions. Material from the Hindu, Buddhist, Jain, Sikh, and Muslim traditions of South Asia may be considered. 3(3-0) D

**REL 711 Seminar in South Asian Religions**

Recommended Prerequisite: REL 710. This seminar will examine a specific topic or tradition within South Asian religions. Students can expect to do focused reading, discussion, and research on a particular subject related to the Hindu, Buddhist, Jain, Sikh, and/or Muslim traditions of South Asia. Historical and contemporary material, along with critiques of scholarship in the field may be considered. May be repeated once if topic is different. 3(3-0) D

**REL 730 Basic Issues in Biblical Studies**

A survey of the history of research on biblical and related literatures with an emphasis on the period from the Enlightenment to the present. The course will cover classic and contemporary historical and literary problems including the theories and methods devised to address them. 3(3-0) D

**REL 731 Seminar in Biblical Studies**

Recommended Prerequisite: REL 730. This seminar examines a specific topic within the history and literature of the Hebrew Bible/Old Testament and/or New Testament. Students can expect to do focused reading, discussion, and research on a particular historical, literary, and/or methodological issue pertaining to the topic. Variable content course. May be repeated once if topic is different. 3(3-0) D

**REL 750 Basic Issues in the History of Judaism and Christianity**

A critical survey of historiographies, evaluative principles and periodizations, their underlying assumptions and results. 3(3-0) D

**REL 751 Seminar in the History of Judaism and Christianity**

Recommended Prerequisite: REL 750. Detailed study of selected persons, authors, movements, and eras in the history of Judaism and Christianity. Variable content course. May be repeated once if topic is different. 3(3-0) D

**REL 770 Basic Issues in Religion, Self, and Society**

A critical survey of religion as a cultural, social, and personal phenomenon with attention to theory and methodology from related disciplines. 3(3-0) D

**REL 771 Seminar in Religion, Self, and Society**

Recommended Prerequisite: REL 770. 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. 3(3-0) D

**REL 796 Readings in Religious Studies**

Prerequisite: recommendation of the Religious Studies general graduate advisor and permission of instructor. Arranged program of readings for the individual student directed by a member of the graduate faculty. Before enrolling in the course, student and instructor must sign an agreement that details the course requirements. Variable content course. May be repeated, when topics varies, to a maximum of 9 hours. 1-3 F,S

**REL 799 Thesis**

Prerequisite: recommendation of the Religious Studies general graduate advisor and permission of student's thesis advisor. The student will prepare an in-depth thesis on a clearly-defined topic within his or her area of specialization. Before enrolling in the course, student and thesis advisor must sign an agreement that details the course requirements. May be repeated to a maximum of 6 hours. 1-6 F,S

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## Department of Sociology and Anthropology

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Email: [sociologyanthropology@missouristate.edu](mailto:sociologyanthropology@missouristate.edu)  
Website: <http://soc-ant.missouristate.edu>  
Acting Department Head: Professor William A. Wedenoja, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Margaret L. Buckner, Ph.D.; John B. Harms, Ph.D.; Tim D. Knapp, Ph.D.; William C. Meadows, Ph.D.; Marvin T. Prosono, Ph.D.; Lorene H. Stone, Ph.D.; Suzanne E. Walker-Pacheco, Ph.D. William A. Wedenoja, Ph.D.

**Assistant Professors:** David A. Byers, Ph.D.; Elizabeth A. Sobel, Ph.D.; Michael D. Stout, Ph.D.; Lora E. Vess, Ph.D.

**Emeritus Professors:** R.G. Amonker, Ph.D.; Gary L. Brock, Ph.D.; Doris W. Ewing, Ph.D.; Shahin Gerami, Ph.D.; Donald D. Landon, Ph.D.; William E. Larkin, Ph.D.; Jeffrey E. Nash, Ph.D.; Burton L. Purrington, Ph.D.; Martha F. Wilkerson, Ph.D.; Juris Zarins, Ph.D.

### Mission Statement

The Department of Sociology and Anthropology exists to educate students in the principles, methods, and contents of sociology and anthropology/archaeology; to conduct scholarly endeavors in these fields; and to provide service activities for the Department, College of Humanities and Public Affairs, Missouri State University, the State of Missouri, the human community, and discipline-based organizations. We carry out these endeavors within the context of the public affairs mission of the University.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Applied Anthropology (Master of Science)

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Science in Applied Anthropology

Eligible Missouri State undergraduate majors in Anthropology may apply for preliminary acceptance into the Master of Science program in Applied Anthropology after admission requirements for the accelerated master's option have been satisfied. This option allows a student to take up to 6 hours of graduate credit counting toward both the requirements for both the Bachelor's and Master's degrees (Mixed Credit).

For courses to be designated as Mixed Credit, the graduate director, undergraduate department head, and Graduate College dean must approve by signing the Permission for Mixed Credit form. This form must be provided to the Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### Majors

#### Anthropology (Non-Comprehensive)

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (30 hours)

1. Required Core (15 hours): [ANT 226\(3\)](#), [227\(3\)](#), [240\(3\)](#) or [250\(3\)](#), [280\(3\)](#), [595\(3\)](#)
2. Choose one course from four of the following five categories (12 hours):
  - a. Archaeology: [ANT 340\(3\)](#), [351\(3-6\)](#), [360\(3\)](#), [397\(3\)\\*](#), [598\(3\)\\*](#)
  - b. Biological Anthropology: [ANT 365\(3\)](#), [370\(3\)](#), [375\(3\)](#), [397\(3\)\\*](#), [598\(3\)\\*](#)
  - c. Cultural Anthropology: [ANT 301\(3\)](#), [302\(3\)](#), [320\(3\)](#), [397\(3\)\\*](#), [510\(3\)](#), [598\(3\)\\*](#)
  - d. Linguistic Anthropology: [ANT 380\(3\)](#), [381\(3\)](#), [382\(3\)](#), [598\(3\)\\*](#); [ENG 494\(3\)](#), [592\(3\)](#)
  - e. Peoples and Cultures: [ANT 325\(3\)](#), [330\(3\)](#), [331\(3\)](#), [335\(3\)](#), [525\(3\)](#)

*\*When applicable*

3. Complete 3 hours of upper division electives in Anthropology.

C. Minor Required (or second major)

D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Anthropology (Non-Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (39 hours)

1. Required Core (18 hours): [ANT 226\(3\)](#), [227\(3\)](#), [240\(3\)](#) or [250\(3\)](#), [280\(3\)](#), [595\(3\)](#); [SOC 302](#) or equivalent (3)

2. Choose one course from four of the following five categories (12 hours):

a. Archaeology: [ANT 340\(3\)](#), [351\(3-6\)](#), [360\(3\)](#), [397\(3\)\\*](#), [598\(3\)\\*](#)

b. Biological Anthropology: [ANT 365\(3\)](#), [370\(3\)](#), [375\(3\)](#), [397\(3\)\\*](#), [598\(3\)\\*](#)

c. Cultural Anthropology: [ANT 301\(3\)](#), [302\(3\)](#), [320\(3\)](#), [397\(3\)\\*](#), [510\(3\)](#), [598\(3\)\\*](#)

d. Linguistic Anthropology: [ANT 380\(3\)](#), [381\(3\)](#), [382\(3\)](#), [598\(3\)\\*](#); [ENG 494\(3\)](#), [592\(3\)](#)

e. Peoples and Cultures: [ANT 325\(3\)](#), [330\(3\)](#), [331\(3\)](#), [335\(3\)](#), [525\(3\)](#)

*\*When applicable*

3. Complete 9 hours of upper division electives in Anthropology.

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Sociology (Non-Comprehensive)**

Bachelor of Arts

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements

1. [SOC 150\(3\)](#), [301\(3\)](#), [302\(3\)](#), [303\(1\)](#), [325\(3\)](#), [398\(3\)](#)

2. Complete [SOC 336\(3\)](#) or [337\(3\)](#) or [420\(3\)](#)

3. Complete one course designated as having a community engagement component: [SOC 152\(3\)](#), [300\(1\)](#), [319\(3\)](#) or [320\(3\)](#)

4. Complete additional Sociology hours bringing total hours in major to 37.

C. Minor Required (or second major)

D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Sociology (Non-Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements

1. [SOC 150\(3\)](#), [301\(3\)](#), [302\(3\)](#), [303\(1\)](#), [325\(3\)](#), [398\(3\)](#)

2. Complete [SOC 336\(3\)](#) or [337\(3\)](#) or [420\(3\)](#)

3. Complete one course designated as having a community engagement component: [SOC 152\(3\)](#), [300\(1\)](#), [319\(3\)](#), or [320\(3\)](#)

4. Complete additional Sociology hours bringing total hours in major to 37.

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## **Minors**

### **Anthropology**

Bachelor of Arts

Bachelor of Science

Bachelor of Social Work

A. Complete 3 of the following courses: [ANT 226\(3\)](#), [227\(3\)](#); [240\(3\)](#) or [250\(3\)](#); [280\(3\)](#)

B. Complete 9 additional hours of ANT electives, at least 6 of which are numbered 300 or above

### **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.

## Anthropology Courses

### ANT 100 World Cultures

General Education Course (Culture and Society/Social Sciences Perspective). An exploration of cultural differences throughout the world, with emphasis on nonwestern societies, from the perspective of cultural anthropology. 3(3-0) F,S

### ANT 125 Exploring Our Human Ancestry

General Education Course (Self-Understanding/Social-Behavioral Perspective). This course explores what it means to be human by tracing our biological and cultural roots. Topics include the evolutionary process; our place among the living primates; fossil and archaeological evidence of human ancestors; and the origins of language, society, and culture. 3(3-0) F,S

### ANT 226 Cultural Anthropology

The comparative study of human society and culture, focusing on theories of culture and cultural institutions and ethnographic and cross-cultural methods of research. 3(3-0) S

### ANT 227 Biological Anthropology

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. 3(3-0) S

### ANT 240 Introduction to Archaeology

An introduction to the goals, methods, theories, issues, and ethics of archaeology-the study of cultures in the past from the remains they left behind. Topics will include archaeological survey, excavation, dating techniques, artifact analysis, conservation, and cultural adaptation and change. 3(3-0) F,S

### ANT 250 World Prehistory

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. 3(3-0) D

### ANT 280 Linguistic Anthropology

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. 3(3-0) F

### ANT 301 Anthropology of Religion

Prerequisite: ANT 100 or 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. 3(3-0) D

### ANT 302 Psychological Anthropology

Prerequisite: ANT 100 or 226. Cross-cultural and evolutionary perspectives on socialization, the self, personality, gender, normality, deviance, mental disorders, cognition, and emotion. 3(3-0) D

### ANT 309 Service Learning in Anthropology

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. 1 F,S

### ANT 320 Ethnography

Prerequisite: ANT 100 or ANT 226. In this course students 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. 3(3-0) D

### ANT 325 North American Indian Cultures

Prerequisite: ANT 100 or ANT 226. 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. 3(3-0) D

### ANT 330 Peoples and Cultures

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. 1-3 D

### ANT 331 Peoples and Cultures of the Caribbean

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. 3(3-0) D

**ANT 332 Peoples and Cultures of Africa**

An exploration of African societies (especially sub-Saharan), including family structure, gender relations, social and political organization, beliefs, economics, art, oral literature, music, dance, and other aspects of culture. 3(3-0) D

**ANT 335 Peoples and Cultures of the Middle East**

Prerequisite: ANT 100 or ANT 226. 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. 3(3-0) D

**ANT 340 Old World Archaeology**

Prerequisite: ANT 240 or ANT 250. 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. 3(3-0) D

**ANT 351 Field Archaeology**

Prerequisite: ANT 125 or ANT 240; 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. 3-6 D

**ANT 360 North American Archaeology**

Prerequisite: ANT 240 or ANT 250. 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. 3(3-0) D

**ANT 363 Survey of Forensic Anthropology**

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. 3(3-0) D

**ANT 365 Human Variation**

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. 3(3-0) D

**ANT 370 The Living Primates**

Prerequisite: ANT 227 or BIO 122 or PSY 336. An introduction to the human species' closest relatives, the nonhuman primates (prosimians, monkeys, and apes); their taxonomy, distribution, morphology, ecology, evolution, behavior, and conservation. 3(3-0) D

**ANT 375 Human Evolution**

Prerequisite: ANT 227 or BIO 122. An exploration into the evolution of the human species, through examination of fossil and molecular evidence. 3(3-0) D

**ANT 380 Language and Culture**

Prerequisite: ANT 280 or ENG 296. Advanced study in linguistic anthropology on topics such as ethnographies of speaking, ethno-linguistics, language change and historical linguistics. Variable content course. May be repeated when topic changes. 3(3-0) S

**ANT 381 Language, Thought, and Culture**

Prerequisite: ANT 280 or ENG 296. This course explores the relationship among language, thought, and culture; how language delineates underlying categories of human experience, and how language influences perspective on the world and everyday behavior. Specific topics will include linguistic relativity, the Whorf hypothesis, language and world-view, and metaphor. 3(3-0) D

**ANT 382 Writing, Literacy, and Orality**

Prerequisite: ANT 280 or ENG 296. This course explores the development and structure of writing systems around the world, and the relationship between writing systems and languages; the effects writing and literacy have had on social, political, and religious institutions, as well as on psychology and cognition; characteristics of oral societies; and knowledge, memory, and performance in oral vs. literate societies. 3(3-0) D

**ANT 397 Special Topics**

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. 1-3 D

**ANT 490 Field Experience in Anthropology**

Prerequisite: permission of instructor. 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. 1-6 D

**ANT 499 Internship in Anthropology**

Prerequisite: 18 hours of ANT and permission of instructor. 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. Graded Pass/Not Pass only. 1-6 D



**ANT 510 Ethnographic Field Methods**

Prerequisite: ANT 226 and 80 hours. Ethnographic methods and techniques in the study of culture, with emphasis on participant-observation, interviewing, note-taking and management, data analysis, and ethics. May be taught concurrently with ANT 611. Cannot receive credit for both ANT 611 and ANT 510. 3(3-0) S

**ANT 525 North American Indians Today**

Prerequisite: ANT 325 or 80 hours. Focuses on major developments in North American Indian life in the 20th and 21st centuries, including cultural, social, economic, political, environmental, and legal issues that affect Native Americans today. May be taught concurrently with ANT 626. Cannot receive credit for both ANT 626 and ANT 525. 3(3-0) D

**ANT 545 Cultural Resource Management**

Prerequisite: ANT 240; 80 hours; and permission of instructor. An examination of laws and regulations pertaining to the preservation of American history and culture and the professional management and preservation of ethnic, historic, and prehistoric cultural resources. May be taught concurrently with ANT 645. Cannot receive credit for both ANT 545 and ANT 645. 3(3-0) F

**ANT 550 Advanced Methods in Archaeology**

Prerequisite: ANT 240 and 80 hours. Advanced study and practice in methods and techniques employed in archaeology such as lithic, ceramic, and faunal analysis. Variable content course. May be repeated when topic changes. May be taught concurrently with ANT 650. Cannot receive credit for both ANT 650 and ANT 550 for the same topic. 3(3-0) S

**ANT 555 Archaeological Theory**

Prerequisite: ANT 240; and 80 hours; and permission of instructor. A comprehensive and in-depth examination of theoretical issues and perspectives concerning the practice of archaeology and the interpretation of archaeological remains. May be taught concurrently with ANT 655. Cannot receive credit for both ANT 555 and ANT 655. 3(3-0) D

**ANT 595 History of Anthropological Theory**

Prerequisite: ANT 226 and 80 hours. Senior culminating course for Anthropology 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. May be taught concurrently with ANT 695. Cannot receive credit for both ANT 695 and ANT 595. 3(3-0) S

**ANT 596 Directed Readings in Anthropology**

Prerequisite: 6 hours of ANT 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. Cannot receive credit for more than 6 hours of ANT 596 and ANT 696 combined. 1-3 F,S

**ANT 598 Seminar in Anthropology**

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. May be taught concurrently with ANT 698. Cannot receive credit for both ANT 698 and ANT 598. 3(3-0) D

**ANT 599 Directed Research in Anthropology**

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. Cannot receive credit for more than 9 hours of ANT 599 and ANT 692 combined. 1-3 F,S

**ANT 611 Ethnographic Field Methods**

Ethnographic methods and techniques in the study of culture, with emphasis on participant-observation, interviewing, note-taking and management, data analysis, and ethics. May be taught concurrently with ANT 510. Cannot receive credit for both ANT 510 and ANT 611. 3(3-0) S

**ANT 626 North American Indians Today**

Focuses on major developments in North American Indian life in the 20th and 21st centuries, including cultural, social, economic, political, environmental, and legal issues that affect Native Americans today. May be taught concurrently with ANT 525. Cannot receive credit for both ANT 525 and ANT 626. 3(3-0) D

**ANT 640 Topics and Problems in Near Eastern Archaeology**

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. 3(3-0) D

**ANT 645 Cultural Resource Management**

Prerequisite: permission of instructor. An examination of laws and regulations pertaining to the preservation of American history and culture and the professional management and preservation of ethnic, historic, and prehistoric cultural resources. May be taught concurrently with ANT 545. Cannot receive credit for both ANT 645 and ANT 545. 3(3-0) F

**ANT 650 Advanced Methods in Archaeology**

Prerequisite: permission of instructor. Advanced study and practice in methods and techniques employed in archaeology such as lithic, ceramic, and faunal analysis. Variable content course. May be repeated when topic changes. May be taught concurrently with ANT 650. Cannot receive credit for both ANT 650 and ANT 550 for the same topic. 3(3-0) S

**ANT 655 Archaeological Theory**

Prerequisite: permission of instructor. A comprehensive and in-depth examination of theoretical issues and perspectives concerning the practice of archaeology and the interpretation of archaeological remains. May be taught concurrently with ANT 555. Cannot receive credit for both ANT 655 and ANT 555. 3(3-0) D



**ANT 692 Directed Research in Anthropology**

Prerequisite: permission of instructor. Individual or group research involving supervised collection and analysis of cultural data. May be repeated to a total of 9 hours. Cannot receive credit for more than 9 hours of ANT 692 and ANT 599 combined. 1-3, F,S

**ANT 695 History of Anthropological Theory**

Senior culminating course for Anthropology 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. May be taught concurrently with ANT 595. Cannot receive credit for both ANT 595 and ANT 695. 3(3-0) S

**ANT 696 Directed Readings in Anthropology**

Prerequisite: 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. Cannot receive credit for more than 6 hours of ANT 596 and ANT 696 combined. 1-3 F,S

**ANT 698 Seminar in Anthropology**

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. May be taught concurrently with ANT 598. Cannot receive credit for both ANT 598 and ANT 698. 3(3-0) D

**ANT 700 Applying Anthropology**

An introduction to the field of applied anthropology, surveying the professional opportunities for applied anthropologists and the variety of ways in which anthropology is applied to the needs and problems of society. 3(3-0) F

**ANT 720 Quantitative Methods in Anthropology**

Recommended Prerequisite: introductory course in statistics. Uses of quantitative methods and databases in the field of anthropology, with particular emphasis on applied research. 3(3-0) S

**ANT 770 Research Design and Writing in Anthropology**

Prerequisite: ANT 700. How to plan and conduct a research project in applied anthropology and prepare grant proposals, contract reports, journal publications, and other professional documents in anthropology. 3(3-0) F

**ANT 790 Internship in Applied Anthropology**

Prerequisite: ANT 700 and permission of instructor. A minimum of 200 hours of work experience as an applied anthropologist with an approved business, organization, program, or agency. Requires a written report and a public presentation. Graded Pass/Not Pass only. 3(0-6) D

**ANT 797 Practicum in Applied Anthropology**

Prerequisite: ANT 770 and permission of instructor. The student will conduct an applied research project from start to finish, culminating in a professional report. Graded Pass/Not Pass only. 3-6 D

**ANT 799 Thesis**

Prerequisite: ANT 770 and permission of instructor. Research and writing of a Master's thesis under the direction of a faculty advisor. Graded Pass/Not Pass only. 3-6 D

## Sociology Courses

**SOC 150 Introduction to Society**

General Education Course (Culture and Society/Social Sciences Perspective). 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. 3(3-0) F,S

**SOC 152 Social Problems in the Community**

Sociological perspectives on contemporary social issues and problems in American society that are faced by today's communities. A public sociology focus is addressed in this course. 3(3-0) F,S

**SOC 300 Service Learning Curricular Component**

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. 1 D

**SOC 301 Research Methodology**

Prerequisite: SOC 150. Methods of collecting and analyzing data including interviewing and observation techniques, scaling and sampling designs. 3(3-0) F,S

**SOC 302 Statistics for Social Research**

Prerequisite: sophomore standing and completion of MTH 130 or higher. It is recommended that Sociology majors taking SOC 302 concurrently enroll in SOC 303. 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, MTH 340, PSY 200, QBA 237, REC 328, SOC 302. 3(3-0) F,S

**SOC 303 Quantitative Methods Lab**

Prerequisite: SOC 302 (or equivalent) or concurrent enrollment. It is recommended that all Sociology majors enrolled in SOC 302

concurrently enroll in SOC 303. An introduction to and application of quantitative social science data analysis. 1(0-2) F,S

**SOC 305 Population Analysis**

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. 3(3-0) S

**SOC 309 Work, Industry, and Society**

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. 3(3-0) D

**SOC 310 Social Deviance**

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. 3(3-0) D

**SOC 315 The Family**

The family as a social institution; its adjustment to modern social conditions; personality adjustments in marriage. 3(3-0) D

**SOC 316 Urban Sociology**

The rise and development of urban settlements (cities), their ecology, problems, and an examination of urbanism as a way of life generated in cities. 3(3-0) F

**SOC 319 Environmental Sociology**

This course examines the causes and consequences of environmental problems, environmental movements, impacts of technological change, environmental policy and the state, environmental values, attitudes, and behaviors. Specific topics will vary, but many include resource scarcity, toxics, overconsumption, agricultural production, and more 3(3-0) D

**SOC 320 Political Sociology**

Introduces students to a sociological analysis of political organization forms and their relations with other elements of social life. Students examine the concept of power and the intersection of personality, social structure, and politics. The course also emphasizes how social inequality between groups (e.g. race, class, and gender, etc.) influences politics and elaborates major social trends affecting the political process including how various social forces work to change political policies. 3(3-0) D

**SOC 325 Introduction to Sociological Theory**

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. 3(3-0) F,S

**SOC 326 Feminist Theories of Social Order**

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. Identical with GST 326. Cannot receive credit for both SOC 326 and GST 326. 3(3-0) S

**SOC 331 Delinquency and the Juvenile Justice System**

Prerequisite: CRM 210. 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. Identical with CRM 330. Cannot receive credit for both SOC 331 and CRM 330. 3(3-0) D

**SOC 336 Race and Ethnicity**

This course explores the social construction of race and ethnicity. Issues of differential power between racial and ethnic groups and the economic, political, and social structures which are utilized to maintain these power differences are identified. Social movements and social policies designed to address social inequality, prejudice and discrimination are also examined. 3(3-0) D

**SOC 337 Sociology of Gender**

This course focuses on gender differences, patterns, and inequalities. It analyzes the social construction of gender, femininities and masculinities, gender socialization, and how gender intersects with race, class, and sexuality. Specific attention is paid to the significance of gender in interaction, culture, and social institutions, including work, politics, media, and the family. 3(3-0) D

**SOC 341 Medical Sociology**

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. 3(3-0) S

**SOC 357 Sociology of Sport**

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. 3(3-0) D

**SOC 360 The Individual in Society**

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. 3(3-0) D

**SOC 375 Social Forces and Aging**

Prerequisite: sophomore standing. 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. Identical with GER 310. Cannot receive credit for both SOC 375 and GER 310. 3(3-0) D

**SOC 380 Sociology of Law**

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. 3(3-0) F

**SOC 384 Social Movements**

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. 3(3-0) S

**SOC 390 Religion in Society**

Examines the relationship between religion and its social context. Students will explore the social nature of individual religious institutions. The relationship between religion and modernity will be studied. The course will pay special attention to the role of religion in American society, as well as the religious dimensions of class, gender, region, and race/ethnicity. Identical with REL 390. Cannot receive credit for both SOC 390 and REL 390. May be taught concurrently with SOC 790. Cannot receive credit for both SOC 390 and SOC 790. 3(3-0) D

**SOC 391 The Holocaust - A Sociological Introduction**

This course explores the social history of the Holocaust, its probable causes, magnitude, operation, consequences and the controversies which surround its study. Discussion ranges into the areas of sociology of religion and of law in order to understand compelling issues raised by this example of genocide. 1(1-0) D

**SOC 397 Special Topics**

Selected topics of contemporary interest in Sociology. May be repeated to a total of 6 hours when the topic changes. Variable content course. 1-3 D

**SOC 398 Public Sociology and Community Studies**

Prerequisite: SOC 150 and Sociology major or minor. Explores how Public Sociology is practiced and connected to the local community. Provides conceptual tools for analyzing communities and creates a foundation for meaningful community engagement. Each section will apply sociological theories and methods to a specific community issue or problem. 3(3-0) F,S

**SOC 420 Social Inequality**

Prerequisite: SOC 150. An analysis of the structure, sources, and consequences of social inequality and the dimensions along which it may be observed. 3(3-0) S

**SOC 425 Advanced Sociological Theory**

Prerequisite: SOC 325. 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. 3(3-0) D

**SOC 470 Practicum in Applied Sociological Research**

Prerequisite: SOC 301, SOC 302, SOC 325 and permission of instructor. Group experience in designing and carrying out an applied community research project. Variable content course. 3(2-4) D

**SOC 485 Society and the Future**

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. 3(3-0) F

**SOC 497 Special Topics**

Prerequisite: 9 hours sociology and permission of instructor. 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. 1-3 D

**SOC 499 Internship in Applied Sociology**

Prerequisite: 18 hours in Sociology and permission of instructor. 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. 1-6 D

**SOC 596 Directed Readings in Sociology**

Prerequisite: permission of instructor. 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. May be taught concurrently with SOC 697. Cannot receive credit for both SOC 697 and SOC 596. 1-3 D

**SOC 599 Sociological Research**

Prerequisite: SOC 150 and SOC 301 and SOC 302 and SOC 325 and permission of instructor. 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. May be taught concurrently with SOC 698. Cannot receive credit for both SOC 698 and SOC 599. 1-3 D

**SOC 697 Directed Readings in Sociology**

Prerequisite: permission of instructor. 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. May be taught concurrently with SOC 596. Cannot receive credit for both SOC 596 and SOC 697. 1-3 D

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Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
published July 2011

Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences

## College of Natural and Applied Sciences

Dean: Professor Tamera S. Jahnke, Ph.D.

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### Academic Units

- [Department of Biology](#)
- [Department of Chemistry](#)
- [Department of Computer Science](#)
- [Department of Geography, Geology and Planning](#)
- [Department of Hospitality and Restaurant Administration](#)
- [Department of Mathematics](#)
- [Department of Physics, Astronomy and Materials Science](#)

### 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.

#### Ozarks Environmental and Water Resources Institute (OEWR)

The Institute supports efforts to protect and restore water quality and supply in the Ozarks Region of southern Missouri and northern Arkansas. Its mission is to provide a hub for science-based monitoring and assessment of water and sediment quality trends, watershed function and disturbance, and land use/land cover change in the Ozarks. In addition, it will initiate and support research programs aimed at solving environmental problems by working in partnership and cooperation with university researchers, environmental groups, and governmental agencies.

#### Bull Shoals Field Station

The Bull Shoals Field Station (BSFS) of Missouri State University operates to promote research and provide educational programs that increase public understanding of southwest Missouri ecosystems. Faculty and graduate students may use the BSFS facilities to conduct research. Researchers from other universities may use BSFS by arrangement with the director, and fees may apply for site upkeep. The Field Station is also available for some usage for K-12 classes and teacher workshops by special arrangement with the Director. These activities must meet the [BSFS guidelines](#).

### Graduate Program

A Master of Natural and Applied Science degree is administered by the College of Natural and Applied Sciences. Courses are offered toward the option in Natural Science within the Master of Science in Education degree in Secondary Education. 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 Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## Environmental Sciences and Policy Minor

**Bachelor of Arts**  
**Bachelor of Science**

**Administrator: Professor Xingping Sun, Ph.D.**

**Administration of the 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.

The minor in Environmental Sciences and Policy consists of 18-20 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: Select 3 of the following. (9-11 hours)
1. BIO 369(4) General Ecology
  2. CHM 260(3) Principles of Environmental Chemistry or CHM 460(3) Environmental Chemistry
  3. GLG 171(4) Environmental Geology\* or GRY 108(3) Ecology and Society\*\*
  4. GRY 351(3) Conservation or Natural Resources or AGN 335(3) Soil Conservation and Water Management
- B. Policy: Select 3 of the following courses (9 hours)
1. ECO 540(3) Economics of the Environment
  2. PHI 302(3) Environmental Ethics
  3. PLS 555(3) Public Policy for a Global Environment
  4. LAW 537(3) Environmental Regulation
  5. PSY 379(3) Environmental Psychology
  6. SOC 319(3) Environmental Sociology

Recommended: At least one statistic course.

*\*GLG 171 partially fulfills the Natural World general education requirement*

*\*\*GRY 108 partially fulfills the Culture and Society general education requirement*

## Engineering Program

**Web Site:** <http://science.missouristate.edu/engineering.htm>

**Cooperative Programs in Civil and Electrical Engineering with Missouri University of Science and Technology (formerly University of Missouri - Rolla)**

**Director:** Professor Douglas R. Carroll, Ph.D.

### Faculty

**Professor:** Robert I. Egbert Ph.D., P.E.

**Assistant Professor:** Matt Pierson, Ph.D.

**Assistant Teaching Professor:** Rohit Dua, Ph.D., Chien-Chung Chen, Ph.D.

Missouri State University and Missouri University of Science & Technology are proud to cooperate in offering two engineering programs on the Missouri State University campus – Civil and Electrical Engineering. The degrees are granted by the Missouri University of Science and Technology in cooperation with Missouri State University. Most of the courses required for graduation will be offered on the Missouri State University campus. The Cooperative Engineering program was developed to satisfy the need for engineers in Southwest Missouri, and because of this, there are enrollment restrictions on the Cooperative Engineering program. The following rules apply: Students who are admitted to Missouri State University must have residency in one of the following nine counties in Missouri: Christian, Dade, Dallas, Greene, Lawrence, Polk, Stone, Taney, Webster. Students who do not have residency in the nine county area are not eligible for the Cooperative Engineering Program. Missouri State University will continue to offer the pre-engineering program to all students, which allows students to complete the first two years of courses on the Missouri State campus and then transfer to the Missouri University of Science and Technology (or another engineering school) to complete their engineering degree.

All entering students into the Civil or Electrical Engineering programs must first satisfy the admission requirements in the Missouri State University catalog. Students will be advised by faculty in the Cooperative Engineering Program, and will complete the courses specified for the Freshman Year of the degree. Students will complete the Freshman Year courses with a minimum of a 2.5 GPA, and meet other admission criteria in the Missouri University of Science & Technology catalog, before applying for admission to the Missouri University of Science & Technology. Students must be admitted to the Missouri University of Science and Technology before enrolling in the sophomore, junior and senior engineering courses.

Students will register for the sophomore, junior and senior level engineering courses through the Missouri University

of Science and Technology, but the courses will be offered on the Missouri State University campus. Tuition and fees for the sophomore, junior and senior level engineering courses will be set at the Missouri University of Science and Technology rates. Students will register for all non-engineering courses through Missouri State University. Tuition and fees for the non-engineering courses will be set at the Missouri State University rates

**Freshman Year (32 Credits):** The Freshman year curriculum is the same for all engineering majors. The EGR 110 - Study and Careers in Engineering course will discuss the different fields of engineering and will help students decide which field of engineering they wish to study. Students should take this course in their freshman year. The common freshman curriculum is below:

### First Semester

EGR 1101 (1)

TCM 110 (3) MTH 2612 (5) CHM 160 (4)

CHM 161 (1) History3 (3)

Total = 17 hours

**Second Semester**

ENG 110 (3) MTH 2804 (5) PHY 2034 (5)

ECO 155 (3) Total = 16 hours

1) A grade of "C" or better is required for graduation in Civil Engineering

2) See prerequisite requirements for MTH 261.

3) The History requirement is selected from HST 121, HST 122 or PLS 101.

4) Prerequisite for MTH 280 and PHY 203 is a grade of "C" or better in MTH 261. Students must make a "C" or better in MTH 280 and PHY 203 in order to enroll in the subsequent math, science and engineering courses.

The remaining three years of the engineering curriculum depends on the major selected. Students majoring in Civil or Electrical Engineering will complete their degree at the Missouri State University campus. Students pursuing other engineering degrees should consult with an academic advisor to plan their second year of coursework at Missouri State University, and to prepare to transfer to Missouri University of Science & Technology (or another university) to complete their degree.

**General Education Requirements – Missouri University of Science and Technology**

Each student's program of study must contain a minimum of 21 credit hours of course work in general education and must be chosen according to the following rules:

1) All students are required to take one American history course, one economics course, one humanities course, and English 110. The history course is to be selected from History 121, History 122, or Political Science 101. The economics course must be Economics 155 or 165. The humanities course must be selected from the approved lists for Art, English, Foreign Languages, Music, Philosophy, Speech and Media Studies, or Theater.

2) Depth requirement. Three credit hours must be taken in humanities or social sciences at the 200 level or above and must be selected from the approved list. This course must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered lower than 200 will be considered to satisfy this requirement if they have a prerequisite (i.e. the second course in the foreign language sequence). Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 300 level or higher. All courses taken to satisfy the depth requirement must be taken after graduating from high school.

3) The remaining two courses are to be chosen from the list of approved humanities/social sciences courses and may include one communications course in addition to English 110.

4) Any specific departmental requirements in the general studies area must be satisfied.

5) Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman.

**Civil Engineering – Years 2-4 Curriculum (99 hours)**

The Civil Engineering program is characterized by its focus on the scientific basics of engineering and its innovative application; indeed, the underlying theme of this educational program is the application of the scientific basics to engineering practice through attention to problems and needs of the public. The necessary interrelations among the various topics, the engineering disciplines, and the other professions as they naturally come together in the solution of real world problems are emphasized as research, analysis, synthesis, and design are presented and discussed through classroom and laboratory instruction.

**Sophomore Year First Semester**

GRY 2752 (3)

MTH 302 (3)

PHY 204 (5)

\*CE 3 (2)

\*IDE 502 (3)

Total = 16 hours

**Second Semester**

MTH 345 (3)

GLG 110 (4) MTH 303 (3)

\*IDE 150 (2)

\*IDE 1102 (3)

\*IDE 120 (1) Total = 16 hours

**Junior Year First Semester**

\*EMGT 1372 (2)

\*CE 2172 (3)

\*CE 2302 (3)

\*CE 261 (3)

\*CE 215 (3) Gen. Ed.1 (3) Total = 17 hours

**Second Semester**

\*CE 216 (3)

\*CE 242 (3)

\*CE 211 (3)

\*CE 234 (4)

\*CE 223 (3)

Total = 16 hours

**Senior Year First Semester**

\*CE 210 (1)

\*CE 248 (3)

\*CE 221 (3)

\*CE Depth3,4 (3)

\*CE Tech3,4 (3) Gen. Ed.1 (3)

Total = 16 hours

**Second Semester**

\*CE 298 (3)

\*CE Depth3,4 (3)

\*CE Tech3,4 (3)

\*CE Tech3,4 (3) Gen. Ed.1 (3) Gen. Ed.1 (3) Total = 18 hours

\*Most Engineering courses will be offered by Missouri University of Science and Technology on the Missouri State University campus. Students must be admitted to Missouri University of Science and Technology prior to enrolling in engineering courses.

1) All general education electives must be approved by the student's advisor. One general education elective must be from ENG 210, 221, 310, 321 or COM 115. One general education elective must satisfy the depth requirement.

2) A grade of 'C' or better required to satisfy graduation requirements.

3) A grade of 'C' or better may be required in CE technical and depth elective prerequisite courses. Refer to the Missouri University of Science and Technology undergraduate catalog for this prerequisite information.

4) Choose depth and tech electives using Guidelines for Depth and Technical Electives.

**NOTE:** All Civil Engineering students must take the Fundamentals of Engineering examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree, however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri University of Science and Technology assessment process as described in Assessment Requirements found elsewhere in the Missouri University of Science and Technology catalog. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.

**Civil Engineering Guidelines for Depth and Technical Electives**

Students should consult with their academic advisor for guidelines regarding the selection of depth and technical electives. Depth and technical electives are offered in the areas of Construction Engineering, Materials Engineering, Environmental Engineering, Geotechnical Engineering, Water Resources Engineering, Structural Engineering and Transportation Engineering.

**Electrical Engineering – Years 2-4 Curriculum (98 hours)**

The Electrical Engineering program is characterized by its focus on the scientific basics of engineering and its innovative application; indeed, the underlying theme of this educational program is the application of the scientific basics to engineering practice through attention to problems and needs of the public. The necessary interrelations among the various topics, the engineering disciplines, and the other professions as they naturally come together in the solution of real world problems are emphasized as research, analysis, synthesis, and design are presented and discussed through classroom and laboratory instruction.

**Sophomore Year**

**First Semester**

\*El Eng. 1511,3,4 (3)

\*El Eng. 1521,3 (1)

\*Cp Eng. 1111,3,5 (3)

\*Cp Eng. 1121,3 (1) MTH 3021 (3)

PHY 2041 (5)

Total = 16 hours

**Second Semester**



\*El Eng. 1211,3,4,7 (3)

\*El Eng. 1221,3,4 (1)

\*El Eng. 1531,4,6 (3)

MTH 3031 (3)

\*IDE 140 (3) CSC 125 (4)

Total = 17 hours

**Junior Year First Semester**

\*El Eng. 2531,3,6,7 (3)

\*El Eng. 2551,3,6,7 (1)

\*El Eng. 2151,3,6 (3)

\*El Eng. 2161,3,6 (1) MTH 533 (3)

COM 115 (3) Hum/SS Elect.2 (3) Total = 17 hours

**Second Semester**

\*El Eng. 2711,3,6 (4)

\*El Eng. 2171,3 (3)

\*El Eng. 2181,3 (1)

\*El Eng. Elect. A7,9 (3) MTH 345 (3)

ENG 3218 (3)

Total = 17 hours

**Senior Year**

**First Semester**

\*El Eng. Power Elect.1,3,6,10 (3)

\*El Eng. Power Elect. Lab1,3,6,10 (1)

\*El Eng. 235 (3)

\*El Eng. Elect. D7,11 (3)

\*El Eng. 391 (1)

Free Elective13 (2)

Hum./SS Elect.2 (3)

Total = 16 hours

**Second Semester**

\*El Eng. Elect. C7,9 (3)

\*El Eng. Elect. E12 (3)

\*El Eng. 392 (3)

Hum./SS upper level2(3)

Free Elective13 (3)

Assessment14 (0)

Total = 15 hours

\*Most Engineering courses will be offered by Missouri University of Science and Technology on the Missouri State University campus. Students must be admitted to Missouri University of Science and Technology prior to enrolling in engineering courses.

1) A minimum grade of "C" must be attained in MTH 261, 280, 302, and 303, PHY 203 and 204, Cp Eng 111, 112, El Eng 151, 152, 153, 121, 122, 215, 216, 217, 218, 253, 255, 271, and the Electrical Engineering power elective. Also, students may not enroll in other courses that use these courses as prerequisites until the minimum grade of "C" is attained.

2) All electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.

3) Students who drop a lecture prior to the last week to drop a class must also drop the corequisite lab.

4) Students must earn a passing grade on the El Eng Advancement Exam I (associated with El Eng 151) before they enroll in El Eng 153 or 121 and 122.

5) Students must earn a passing grade on the Cp Eng Advancement Exam (associated with Cp Eng 111) before they enroll in any course with Cp Eng 111 and 112 as prerequisites.

6) Students must earn a passing grade on the El Eng Advancement Exam II (associated with El Eng 153) before they enroll in courses that have El Eng 153 as a prerequisite.

7) Students must earn a passing grade on the EI Eng Advancement Exam III (associated with EI Eng 121) before they enroll in EI Eng 253 and 255 or other courses with EI Eng 121 as a prerequisite.

8) ENG 321 is preferred, but students may replace ENG 321 with ENG 210, 221 or 310.

9) Electrical Engineering Electives A and C must be chosen from the EI Eng 205 and 208, 207 and 209, 225, 243, 254, and Cp Eng 213.

10) The Electrical Engineering Power Elective may be satisfied with EI Eng 205 and 208 or EI Eng 207 and 209.

11) Electrical Engineering Elective D must be a 300-level EI Eng or Cp Eng course with at least a 3-hour lecture component. This normally includes all EI Eng and Cp Eng 3xx courses except EI Eng or Comp. Eng. 300, 390, 391, and 392.

12) Electrical Engineering Elective E may be any 200 or 300-level EI Eng or Cp Eng course except EI Eng 281, 282, and 283 and EI Eng or Cp Eng 391 and 392.

13) Students are required to take five hours of free elective in consultation with their academic advisors. Credits that do not count toward this requirement are deficiency courses (such as algebra and trigonometry) and extra credits from courses meeting other requirements. Any courses outside of engineering and science must be at least three credit hours.

14) All Electrical Engineering students must take the Fundamentals of Engineering Examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree, however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri University of Science and Technology assessment process as described in Assessment Requirements found elsewhere. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.

#### Emphasis Areas for Electrical Engineering

**Note:** Students must meet the requirements above to satisfy the Electrical Engineering Electives. It is not required that students obtain an emphasis specialty within electrical engineering. Students who wish to have an emphasis area should consult with their academic advisor in selecting the courses. The possible emphasis areas for Electrical Engineering are Circuits and Electronics, Communications-Signal Processing, Computer Engineering, Controls, Electromagnetics, and Power.

## Engineering Courses

### EGR 110 Study and Careers in Engineering

Examination of fields of engineering and career opportunities in engineering. Professional expectations of engineers. Introduction to resources for assisting student success. 1(1-0) F

### EGR 199 Engineering Tracking Course

Enrollment tracking course for students in the cooperative engineering program with Missouri University of Science and Technology. Fees for this course will be assessed based on MO S&T rates. Course is initially graded with an I grade and when transcript from MO S&T is received and evaluation completed the grade will be changed to NV. The title of the section should reflect the corresponding course taken at MO S&T. 1-5, F,S,Su

## Science Education Courses

### SCI 214 Introduction to Science Teaching in the 21st Century

Prerequisite: completion of eight hours of science courses. The course is an introduction to science teaching and to the field of science. Topics in the course include the nature of science, scientific inquiry and research in the sciences. The students will explore how scientists conduct research and how teachers and students conduct research in classrooms. 1(0-2) F

### SCI 314 Techniques and Technology in Science Laboratory Teaching

Prerequisite: SCI 214 and SEC 302; and one laboratory courses in each science discipline: BIO, CHM, PHY, GLG or GRY. Instruction will focus on safe and effective uses of laboratory techniques and technology to teach science. The course will emphasize the potential of the science laboratory as a vehicle to promote student understanding of science and scientific inquiry. Pre-service teachers will have opportunities to familiarize themselves with laboratory equipment and techniques they will use to teach science in middle or high schools. Field trips to local schools will be required. 3(2-2) S

### SCI 404 Teaching of Middle School Natural Science

Prerequisite: BIO 205 and CHM 105 and PHY 101 and GRY 240; EDC 350 or concurrent enrollment; and admission to Teacher Education Program; RDG 318 and MID 421 are recommended. Integration of current science learning theories and standards into practical classroom experiences for students of diverse backgrounds and abilities. Students will learn to design and teach science through various inquiry pedagogical approaches. A 15 hour practicum is required. Field trips are required. Portfolio checkpoint 2 is partially addressed through assignments in this course. Credited only on B.S. in Education degree. A grade of "C" or better is required in this course in order to take MID 493 or MID 494. May not be taken Pass/Not Pass. 3(2-2) S

### SCI 414 Teaching of Secondary School Natural Science

Prerequisite: admission to teacher education program; SCI 214 and SCI 314; completion of 20 hours in the primary science field; minimum of one required course in BIO, CHM, PHY, GLG or GRY; EDC 350 or concurrent enrollment; RDG 474 is recommended. Integration of current science learning theories and standards into practical classroom experiences for students of diverse backgrounds and abilities. Students will learn to design and teach science through various inquiry pedagogical approaches. Students will learn to assess content knowledge achievement through formal and informal techniques. Practical classroom management will be emphasized. A 15 hour practicum is required. Field trips are required. Portfolio checkpoint 2 is partially addressed through assignments in this courses. Credited only on B.S. in Education. A grade of "C" or better is required in this class in order to take SCI 493 and SCI 494. May not be taken Pass/Not Pass. 3(2-2) F

### SCI 493 Supervised Teaching (Secondary Science)

Prerequisite: SCI 414; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes, then teaches science 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

**SCI 494 Supervised Teaching (Secondary Science)**

Prerequisite: concurrent enrollment in SCI 493. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 F,S

**SCI 499 Clinical Experience in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**SCI 505 Intellectual Foundations of Science and Technology**

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. May be taught concurrently with SCI 605. Cannot receive credit for both SCI 605 and SCI 505. 3(3-0) S

**SCI 580 Topics in Science Education**

Prerequisite: 70 hours. 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. May be taught concurrently with SCI 685. Cannot receive credit for both SCI 685 and SCI 580. 1-4 D

**SCI 605 Intellectual Foundations of Science and Technology**

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. May be taught concurrently with SCI 505. Cannot receive credit for both SCI 505 and SCI 605. 3(3-0), S

**SCI 685 Topics in Science Education**

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. May be taught concurrently with SCI 580. Cannot receive credit for both SCI 685 and SCI 580. 1-4 D

**SCI 780 Advanced Topics in Science Education**

Prerequisite: 12 hours of graduate coursework. 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. Maximum of 6 hours may be counted toward degree. 1-4, D

Office of the Registrar  
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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Biology

## Department of Biology

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Email: [Biology@missouristate.edu](mailto:Biology@missouristate.edu)  
Website: <http://biology.missouristate.edu>  
Department Head: Professor S. Alicia Mathis, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** M. Christopher Barnhart, Ph.D.; Daniel W. Beckman, Ph.D.; Paul L. Durham, Ph.D.; Janice S. Greene, Ph.D.; John E. Havel, Ph.D.; John Heywood, Ph.D.; Laszlo G. Kovacs, Ph.D.; Lynn W. Robbins, Ph.D.; John G. Steiert, Ph.D.; Thomas E. Tomasi, Ph.D.; D. Alexander Wait, Ph.D.

**Associate Professors:** Brian D. Greene, Ph.D.; Kyoungtae Kim Ph.D.; Georgiana Saunders, Ph.D.

**Assistant Professors:** Day B. Ligon, Ph.D.; Brian K. Weaver, Ph.D.

**Instructors:** Laura M. Bowe, Ph.D.; Myra K. Hughes, M.D.

**Adjunct Faculty:** Wendy B. Anderson, Ph.D.; David E. Bowles, Ph.D.; Michael D. Debacker, M.S.; Hope Dodd, M.S.; Selma Glasscock, Ph.D.; Sami Khoshyomn, M.D.; Lloyd W. Morrison, Ph.D.; David G. Peitz, M.S.; Gareth A. Rowell, Ph.D.; Michael H. Williams, M.S.; Craig C. Young, M.S.

**Emeritus Professors:** Jerry D. Berlin, Ph.D.; Loren L. Denney, Ed.D.; Roar L. Igrens, Ph.D.; Steven L. Jensen, Ph.D.; Don L. Moll, Ph.D.; Richard L. Myers, Ph.D.; Barbara K. Newman, M.S.Ed.; Robert L. Philibert, Ph.D.; Grant L. Pyrah, Ph.D.; Paul L. Redfearn, Jr., Ph.D.; Russell G. Rhodes, Ph.D.; Robert F. Wilkinson, Jr., Ph.D.

### Accreditation

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.

### Mission Statement

The mission of the Biology department is the dissemination of biological knowledge (through classroom teaching and community service) and the generation of new biological knowledge (through research). This mission is embodied in six areas of scholarly activity, which include (1) service courses for non-majors, (2) the undergraduate program in biology, (3) the graduate program in biology, (4) faculty research and development, (5) service to the civic community, and (6) service to the research community. We seek a faculty composition that offers excellent teaching and research in all fundamental subject areas within biology, including teacher education. Our mission includes the following shared values:

- Ethical behavior in scholarly and research activities
- A broadly-based understanding of the natural world
- Hands-on learning through laboratory and field experiences
- Critical-thinking and problem solving through the scientific method
- A climate that is supportive of diversity
- Excellence in teaching and advising
- Generation of knowledge through research by both faculty and students
- Dissemination of knowledge through publication and presentations
- Student involvement in research and internships
- Student participation in university-based organizations related to biology
- Student and faculty involvement in professional societies
- Exposure of students to other cultures and ecosystems through study-away courses
- Outreach to the local community
- Collaborations and partnerships with private, nonprofit and government agencies

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

Students with prior credit for BIO 134 and 167 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.

## Graduate Programs

The following graduate programs are available:

Biology (Master of Science); Plant Science (Master of Science); Secondary Education with an option in Biology (Master of Science in Education); and Master of Natural and Applied Science degree with an area of emphasis in Biology.

Refer to the [Graduate Catalog](#) for more information.

### Accelerated Master of Natural and Applied Science Degree

Eligible Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information.

### Accelerated Master of Science degree in Biology

Eligible Missouri State undergraduate students majoring in biology may apply for preliminary acceptance into the Master of Science program in Biology after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). This option 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, rather than the typical four semesters and a summer. Refer to the Graduate Catalog for more information.

### Accelerated Master of Science degree in Plant Science

Eligible Missouri State undergraduate students majoring in Agriculture, Biology, and Chemistry may apply for preliminary acceptance into the Master of Science program in Plant Science after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted towards both the undergraduate and graduate degrees (Mixed Credit). The courses must be in the area of economic botany, plant physiology, plant genetics, crop management systems, plant nutrition, soils, chemistry, ecology, fruit production, viticulture, enology, or ornamental plants and landscaping.

This option is tailored to those undergraduates who have acquired considerable plant science-related research experience in a laboratory through the departments of Agriculture, Biology or Chemistry at Missouri State. Courses to be counted toward both degrees must be identified jointly in agreement with the undergraduate advisor, the student's research mentor, and the Plant Science Program Director. This option will enable Agriculture, Biology or Chemistry majors to potentially meet the requirements for the MS in Plant Science degree within two semesters following the completion of the undergraduate degree. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## General Information

**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.

## Majors

### Biology (Non-Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) 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. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
  3. Related Requirements: CHM 200(5) or 342(5) and 343(5) or 344(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 [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Biology (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) 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 36 hours and include at least 12 hours of 300-level or above courses. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
3. Related Requirements: CHM 200(5) or 342(5) and 343(5) or 344(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 [General Baccalaureate Degree Requirements](#) section of catalog

### **Biology (Comprehensive)**

#### Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) 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 302(5) or 342(5); consult options below before selecting course
7. Complete requirements in one of the following options\*: Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.
  - a. **Environmental Biology and Evolution** (33-38 hours)
    1. Required courses: BIO 369(4), 515(3)
    2. Complete courses in biodiversity and evolution totaling at least 3 hours from the following: BIO 334(3), 339(2), 370(4), 371(3), 380(5), 530(3), 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)
    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(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 557(2), 558(2)
    4. 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), 579(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)
    5. 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 334(3), 339(2), 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)
    6. Complete 0-7 hours of elective BIO courses at the level of 300 or above to total a minimum of 43 hours in biology
    7. Complete at least one of the following related requirements in Mathematics, Statistics, or Computer programming: MTH 261 (5) or 287(3) or 546(3) or 547(3) or CSC 125(4) or CSC 131(4) or PSY 527(3)
    8. Related requirements in Chemistry: CHM 160(4), 170(3), 175(2)
    9. Complete one of the following related science courses: AGN 215(3), ANT 375(3); CHM 260(3) or 460(3); GLG 171(3), GRY 351(3)
    10. Complete one of the following related social science courses: ECO 540(3), LAW 537(3), PHI 302(3), PLS 555(3), PSY 379(3)
  - b. **Microbiology and Biotechnology** (33-42 hours)
    1. Required courses: BIO 310(5), 320(4)
    2. Complete 21 additional hours in BIO courses with a minimum of 18 hours from the following: BIO 355(4), 508(3), 511(4), 512(3), 515(3), 517(4), 518(2), 520(3), 530(3), 540(4); BMS 524(3) may be substituted for one of these courses; CHM 302(5), 480(4), or 502(4) may be substituted for one of these courses
    3. Related requirements in Chemistry: CHM 160(4), 170(3), 175(2); CHM 200(5) or 342(5); CHM 343(5) or 344(3); CHM 352(3) or 452(3); and CHM 552(3)
  - c. **Wildlife Biology** (30-47 hours)
    1. Required courses: BIO 320(4) or 361(4), 369(4)
    2. Complete two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4), 546(4)

3. Complete three courses in animal biology from: BIO 370(4), 371(3), 380(5), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3)
4. Complete a minimum of 5 hours in management from: BIO 373(3), 485(1-3), 532(3), 562(4), 589(3)
5. Complete two courses in ecology and evolution from: BIO 436(4), 515(3), 539(2), 563(3), 567(4), 578(4), 579(4), 584(3)
6. Complete one course in human dimensions from the following: AGN 335(3), CRM 210(3), ECO 540(3), GRY 108(3), GRY 351(2), PHI 302(3), PLS 555(3), LAW 537(3)
7. Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Biology Education

Bachelor of Science in Education  
(Certifiable grades 9-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) 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
  1. 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.
  2. 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*
  3. Complete the requirements in one of the following grades 9-12 certification areas:
    - a. **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)
    - b. **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 214(1), 314(3), 414(3), 493(6), 494(6); and the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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.

**Health Education Certification (certifiable grades 9-12, added endorsement only):** Students who complete the Bachelor of Science in Education degree with a major in Biology Education 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); BMS 130(3) or 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.

### Wildlife Conservation and Management (Comprehensive)

Bachelor of Science

This major is offered in cooperation with the Agriculture Department.

- A. General Education Requirements - see [General Education Program and Requirements](#) 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. AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or 375(3); AGR 383(3); AGR 490(1)
    - b. Select two courses (4-6 hours) from: AGB 354(2); AGP 333(3), 483(3), 485(3); AGN 351(2)
  2. Biology Requirements:
    - a. BIO 121(4), 122(4), 334(3), 339(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 [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Biology

Bachelor of Arts

- A. BIO 121(4), 122(4), 235(4)
- B. Additional biology electives to total 15 hours.

### Biology

Bachelor of Science

- A. BIO 121(4), 122(4), 235(4), 369(4)
- B. Additional 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).

## Biology Courses

### BIO 100 Biological Science for Educators

General Education Course (Natural World). 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. 4(3-3) F,S

### BIO 101 Biological Concepts

Prerequisite: permission. Lecture portion only of BIO 102. This course allows students who have prior transfer credit for the laboratory portion of BIO 102 to take the lecture portion of BIO 102 as a stand-alone three credit hour course. Does not count for general education credit for students whom enter under the fall 1997 catalog or later. unless prior approval is granted. 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. 3(3-0) F,S

### BIO 102 Principles of Biological Science

General Education Course (Natural World). 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. 4(3-2) F,S

### BIO 121 General Biology I

Prerequisite: eligibility for both ENG 110 and MTH 135. General Education Course (Natural World). 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. 4(3-3) F,S

### BIO 122 General Biology II

Prerequisite: eligibility for both ENG 110 and MTH 135. Recommended Prerequisite: BIO 121. Second half of two-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. 4(3-3) F,S

### BIO 197 Selected Topics in Biology

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. 1(1-0 or 0-2) D

### BIO 205 Life Science for Middle School

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. 2(1-3) S

### BIO 210 Elements of Microbiology

Prerequisite: CHM 105 or CHM 160 and 4 credit hours of BIO or BMS 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. Supplemental course fee. 3(2-2) F,S

### BIO 215 Introduction to the Diversity of Life

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. 2(1-3) D

### BIO 235 Principles of Genetics

Prerequisite: BIO 121 or BMS 110; and BIO 122 and MTH 135 or higher. An introduction to basic concepts of molecular and Mendelian genetics and an inquiry into the basic processes of evolution. Supplemental course fee. 4(3-3) F,S



**BIO 277 Marine Science II: Marine Biology**

Prerequisite: 8 hours biology; and concurrent enrollment in BIO 278. A general introduction to marine biology with emphasis on local fauna and flora. Recommended for students considering a career in any phase of Oceanography. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. 3(3-0) Su

**BIO 278 Marine Science II: Marine Biology Lab**

Prerequisite: concurrent enrollment in BIO 277. Laboratory portion of BIO 277. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. 2(0-4) Su

**BIO 300 Service Learning in Biology**

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. May be repeated. 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. 1 F,S

**BIO 310 Microbiology**

Prerequisite: BIO 235 or BMS 230 or BMS 231; and CHM 105 or CHM 160. 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. Supplemental course fee. 5(3-4) F,S

**BIO 320 Introduction to Cellular Biology**

Prerequisite: BIO 235 or BMS 230; and CHM 200 or CHM 342. Introduction to the structure and function of cells with an emphasis on eukaryotes. Supplemental course fee. 4(3-2) F,S

**BIO 334 Plant Taxonomy**

Prerequisite: 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. 3(2-3) S

**BIO 339 Identification of Woody Plants**

Prerequisite: 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. 2(0-4) F

**BIO 355 Developmental Biology**

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 755. 4(3-2) D

**BIO 361 General Physiology**

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. Supplemental course fee. 4(3-3) F,S

**BIO 369 General Ecology**

Prerequisite: BIO 122 and MTH 135 or higher. Introduction to the basic concepts of ecology. 4(3-2) F,S

**BIO 370 Invertebrate Zoology**

Prerequisite: BIO 121 and BIO 122. Biological principles exemplified by study of functional morphology, taxonomy and phylogeny of invertebrate phyla. 4(2-4) SO

**BIO 371 Introduction to Entomology**

Prerequisite: BIO 121 and BIO 122. Introduction to insect structure and function with emphasis on comparative morphology, physiology, life history, behavior, and ecology. 3(2-2) S

**BIO 373 Principles of Wildlife Management**

Prerequisite: BIO 122. This course considers ecological principles, conservation, and management policies for wild animals and habitats. 3(3-0) F

**BIO 380 Comparative Vertebrate Anatomy**

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. May be taught concurrently with BIO 680. Cannot receive credit for both BIO 380 and BIO 680. Supplemental course fee. 5(2-6) F

**BIO 398 Laboratory Internship in Biology**

Prerequisite: B.S.Ed major in Biology Education, 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. 1(0-3) F,S

**BIO 399 Cooperative Education in Biology**

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. 1-3 F,S

#### **BIO 436 Plant Ecology**

Recommended Prerequisite: BIO 369. 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. May be taught concurrently with BIO 636. Cannot receive credit for both BIO 436 and BIO 636. 4(2-4) F

#### **BIO 485 Marine Conservation**

Recommended Prerequisite: BIO 102 or BIO 122. 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. May be taught concurrently with BIO 685. Cannot receive credit for both BIO 485 and 685. 1-3 D

#### **BIO 494 Senior Seminar**

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. 1(1-0) F,S

#### **BIO 498 Honors Senior Project**

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. 3 D

#### **BIO 499 Special Topics in Biology**

Prerequisite: Biology major with a minimum of a 3.00 GPA; and 20 hours in Biology courses; and permission of instructor. 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. 1-3 F,S,Su

#### **BIO 508 Environmental Microbiology**

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. May be taught concurrently with BIO 608. Cannot receive credit for both BIO 608 and BIO 508. 3(2-2) F

#### **BIO 509 Stream Ecology**

Prerequisite: BIO 369. Recommended Prerequisite: CHM 171 or higher. 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. May be taught concurrently with BIO 609. Cannot receive credit for both BIO 609 and BIO 509. 4(2-4) S

#### **BIO 511 Immunology**

Prerequisite: B10 210 or BIO 310 or BIO 320 or BMS 521. A study of the immune system with emphasis on molecular and cellular mechanisms underlying host-microbe interactions, allergy, transplant rejection, cancer surveillance, and autoimmune disease. Laboratory emphasis on techniques used to address research and diagnostic problems. Supplemental course fee. May be taught concurrently with BIO 611. Cannot receive credit for both BIO 511 and BIO 611. 4(3-2) F

#### **BIO 512 Industrial Microbiology**

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 bio-reactor construction and design. May be taught concurrently with BIO 613. Cannot receive credit for both BIO 613 and BIO 512. 3(2-2) S

#### **BIO 515 Evolution**

Prerequisite: BIO 235 and MTH 135 or higher. 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. May be taught concurrently with BIO 616. Cannot receive credit for both BIO 616 and BIO 515. 3(3-0) F,S

#### **BIO 517 Microbial Physiology and Metabolism**

Prerequisite: B10 210 or BIO 310 and either CHM 200 or CHM 342. 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. May be taught concurrently with BIO 617. Cannot receive credit for both BIO 617 and BIO 517. 4(2-4) F

#### **BIO 518 Regulatory Mechanisms**

Prerequisite: BIO 310 or BIO 320 or BMS 521 or CHM 452. The regulation of gene expression and protein/enzyme activity in

prokaryotes, eukaryotes and viruses. A content-based lecture and discussion course utilizing both textbook and primary literature. May be taught concurrently with BIO 618. Cannot receive credit for both BIO 518 and BIO 618. 2(1-2), S

**BIO 520 Pathogenic Microbiology**

Prerequisite: BIO 210 or BIO 310. Fundamental principles of pathogenic microbiology; transmission, infection and control of the pathogen. May be taught concurrently with BIO 620. Cannot receive credit for both BIO 620 and BIO 520. 3(3-0) S

**BIO 521 Marine Science for Teachers I**

Prerequisite: 12 hours in biology; and concurrent enrollment in BIO 522. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 621. Cannot receive credit for both BIO 621 and BIO 521. 2(2-0) Su

**BIO 522 Marine Science for Teachers I Lab**

Prerequisite: concurrent enrollment in BIO 521. Laboratory portion of BIO 521. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 623. Cannot receive credit for both BIO 623 and BIO 522. 1(0-2) Su

**BIO 527 Field Biology**

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. May be repeated to a total of 6 credits with a maximum of 3 credits to be applied to the major in biology. Supplemental course fee (variable by section). May be taught concurrently with BIO 627. Cannot receive credit for both BIO 627 and BIO 527. 1-4 D

**BIO 530 Phycology**

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. May be taught concurrently with BIO 629. Cannot receive credit for both BIO 629 and BIO 530. 3(2-2) S

**BIO 532 Principles of Fisheries Management**

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. May be taught concurrently with BIO 632. Cannot receive credit for both BIO 632 and BIO 532. 3(2-2) S

**BIO 533 Wetland Ecology**

Prerequisite: BIO 369. Recommended Prerequisite: CHM 171 or higher. 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. May be taught concurrently with BIO 633. Cannot receive credit for both BIO 633 and BIO 533. 3(2-2) F

**BIO 534 Coastal Vegetation**

Prerequisite: 10 hours of biology including BIO 121 and BIO 122; and concurrent enrollment in BIO 535. A broad study of the general and specific aspects of coastal vegetation, with emphasis on local examples. Vegetational composition, variation, succession, climax, and distribution. Includes aerial techniques, plant identification, delineation of vegetational types and mapping. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 641. Cannot receive credit for both BIO 641 and BIO 534. 2(2-0) Su

**BIO 535 Coastal Vegetation Lab**

Prerequisite: concurrent enrollment in BIO 534. Laboratory portion of BIO 534. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 635. Cannot receive credit for both BIO 635 and BIO 535. 1(0-2) Su

**BIO 537 Salt Marsh Plant Ecology**

Prerequisite: BIO 122 and BIO 334 and BIO 544 and BIO 369; and concurrent enrollment in BIO 538. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 637. Cannot receive credit for both BIO 637 and BIO 537. 2(2-0) Su

**BIO 538 Salt Marsh Plant Ecology Lab**

Prerequisite: concurrent enrollment in BIO 537. Laboratory portion of BIO 537. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 638. Cannot receive credit for both BIO 638 and BIO 538. 2(0-4) Su

**BIO 539 Biogeography**

Prerequisite: BIO 121 and BIO 122. Study of patterns of distribution of organisms in space and in time. May be taught concurrently with BIO 639. Cannot receive credit for both BIO 639 and BIO 539. 2(2-0) F

**BIO 540 Applications of Molecular Markers**

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. Supplemental course fee. May be taught concurrently with BIO 640. Cannot receive credit for both BIO 640 and BIO 540. 4(2-4) FO

#### **BIO 544 Plant Physiology**

Recommended prerequisite: CHM 200 or CHM 342. Basic chemical and physical principles of plant function considering water relationships, nutrient transport, mineral nutrition, photosynthesis, respiration, and phytohormones. May be taught concurrently with BIO 644. Cannot receive credit for both BIO 644 and BIO 544. 4(3-2) D

#### **BIO 550 Statistical Methods for Biologists**

Prerequisite: BIO 235 or BMS 230 or BMS 231; and MTH 138 or higher. Scientific methodology, experimental design, statistical analysis, and data interpretation applied to biological questions. May be taught concurrently with BIO 650. Cannot receive credit for both BIO 650 and BIO 550. 3(3-0) F,S

#### **BIO 551 Advanced Statistical Methods for Biologists**

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. May be taught concurrently with BIO 651. Cannot receive credit for both BIO 651 and BIO 551. 2(1-2) S

#### **BIO 555 Marine Ichthyology**

Prerequisite: junior standing; 16 hours of biology including BIO 121 and BIO 122 and BIO 235 and BIO 380; and concurrent enrollment in BIO 556. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 654. Cannot receive credit for both BIO 654 and BIO 555. 3(3-0) Su

#### **BIO 556 Marine Ichthyology Lab**

Prerequisite: concurrent enrollment in BIO 555. Laboratory portion of BIO 555. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 656. Cannot receive credit for both BIO 656 and BIO 556. 3(0-6) Su

#### **BIO 557 Marine Fisheries Management**

Prerequisite: permission of instructor; and concurrent enrollment in BIO 558. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 657. Cannot receive credit for both BIO 657 and BIO 557. 2(2-0) Su

#### **BIO 558 Marine Fisheries Management Lab**

Prerequisite: concurrent enrollment in BIO 557. Laboratory portion of BIO 557. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 658. Cannot receive credit for both BIO 658 and BIO 558. 2(0-4) Su

#### **BIO 560 Population Genetics and Evolutionary Mechanisms**

Prerequisite: BIO 515 and BIO 550. The theory of genetic variation in populations, with emphasis on quantitative description of the mechanisms of biological evolution. May be taught concurrently with BIO 659. Cannot receive credit for both BIO 659 and BIO 560. 3(3-0) D

#### **BIO 561 Environmental Issues Education and Interpretation**

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 educational setting. May be taught concurrently with BIO 661. Cannot receive credit for both BIO 561 and BIO 661 2(1-2), D

#### **BIO 562 Limnology**

Prerequisite: BIO 369. Recommended Prerequisite: CHM 171 or higher. Physical, chemical, and biological characteristics of lakes and reservoirs. Laboratory includes mapping, lake models, water chemistry, and surveys of diversity and abundance. Two all-day Saturday labs required. May be taught concurrently with BIO 662. Cannot receive credit for both BIO 662 and BIO 562. 4(2-4) F

#### **BIO 563 Population Ecology**

Prerequisite: BIO 369; and MTH 138 or higher. Discussion of factors controlling the distribution and abundance of populations. Quantitative description of population dynamics is emphasized. May be taught concurrently with BIO 663. Cannot receive credit for both BIO 663 and BIO 563. 3(2-2) SE

#### **BIO 564 Ozarks Natural Communities**

Recommended Prerequisite: BIO 369. Examination of forests, glades, and aquatic habitats with focus on environmental issues in the Ozarks. Integration into formal and non-formal educational settings will be covered. May be taught at the Bull Shoals Field Station. 2(1-2) D

#### **BIO 565 Marine Ecology**

Prerequisite: 16 hours of biology including BIO 121 and BIO 122; and concurrent enrollment in BIO 566. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 665. Cannot receive credit for both BIO 665 and BIO 565. 3(3-0) Su

#### **BIO 566 Marine Ecology Lab**

Prerequisite: concurrent enrollment in BIO 565. Laboratory portion of BIO 565. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 666. Cannot receive credit for both BIO 666 and BIO 566. 2(0-4) Su

**BIO 567 Physiological Ecology**

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. May be taught concurrently with BIO 668. Cannot receive credit for both BIO 668 and BIO 567. 4(4-0) SO

**BIO 571 Comparative Animal Physiology**

Prerequisite: BIO 361 or BMS 308. Organ/system function in a wide range of invertebrate and vertebrate animals. May be taught concurrently with BIO 671. Cannot receive credit for both BIO 671 and BIO 571. 4(3-3) SO

**BIO 573 Ornithology**

Prerequisite: 12 hours of biology. Taxonomy, distribution, life histories and ecology of birds; emphasis on Missouri forms. Early morning field trips required. May be taught concurrently with BIO 673. Cannot receive credit for both BIO 673 and BIO 573. 3(2-2) S

**BIO 574 Aquatic Entomology**

Prerequisite: BIO 370 or BIO 371 or AGR 383. Aquatic insects, ecology and taxonomy with emphasis on field applications. May be taught concurrently with BIO 674. Cannot receive credit for both BIO 674 and BIO 574. 2(1-3) SE

**BIO 575 Ichthyology**

Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of fish with emphasis on Missouri forms. May be taught concurrently with BIO 675. Cannot receive credit for both BIO 675 and BIO 575. 3(2-2) F

**BIO 576 Herpetology**

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. May be taught concurrently with BIO 676. Cannot receive credit for both BIO 676 and BIO 576. 3(2-2) S

**BIO 577 Mammalogy**

Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of mammals with emphasis on Missouri forms. One weekend field trip required. May be taught concurrently with BIO 677. Cannot receive credit for both BIO 677 and BIO 577. 3(2-2) F

**BIO 578 Behavioral Ecology**

Recommended Prerequisite: BIO 369 and BIO 550. Fundamental principles of animal behavior with an emphasis on the study of the ecological and evolutionary processes that influence behavior. May be taught concurrently with BIO 678. Cannot receive credit for both BIO 678 and BIO 578. 4(3-2) S

**BIO 579 Conservation Biology**

Prerequisite: BIO 235 and BIO 369. An in-depth examination of the science of conservation from a biological perspective, with an examination of ethical and legal aspects of conservation. May be taught concurrently with BIO 679. Cannot receive credit for both BIO 679 and BIO 579. 4(3-2) D

**BIO 584 Fish Ecology**

Prerequisite: BIO 369 and BIO 575. The biology of fishes in relation to environmental conditions at the individual, population, and community levels. May be taught concurrently with BIO 686. Cannot receive credit for both BIO 686 and BIO 584. 3(3-0) S

**BIO 587 Marine Invertebrate Zoology**

Prerequisite: 16 hours in biology; and concurrent enrollment in BIO 588. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 687. Cannot receive credit for both BIO 687 and BIO 587. 3(3-0) Su

**BIO 588 Marine Invertebrate Zoology Lab**

Prerequisite: concurrent enrollment in BIO 587. Laboratory portion of BIO 587. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 688. Cannot receive credit for both BIO 688 and BIO 588. 3(0-6) Su

**BIO 589 Game Management**

Prerequisite: BIO 373. Management of game birds and mammals for recreational utilization. May be taught concurrently with BIO 689. Cannot receive credit for both BIO 689 and BIO 589. 3(3-0) D

**BIO 597 Topics in Biology**

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. May be taught concurrently with BIO 697. Cannot receive credit for both BIO 697 and BIO 597. 1-4 D

**BIO 608 Environmental Microbiology**

Recommended Prerequisite: microbiology. 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. May be taught

concurrently with BIO 508. Cannot receive credit for both BIO 508 and BIO 608. 3(2-2), F

**BIO 609 Stream Ecology**

Recommended Prerequisite: ecology course and one year of college chemistry. 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. May be taught concurrently with BIO 509. Cannot receive credit for both BIO 509 and BIO 609. 4(2-4), SO

**BIO 611 Immunology**

Recommended Prerequisite: microbiology or molecular/cellular biology. A study of the immune system with emphasis on molecular and cellular mechanisms underlying host-microbe interactions, allergy, transplant rejection, cancer surveillance, and autoimmune disease. Laboratory emphasis on techniques used to address research and diagnostic problems. Supplemental course fee. May be taught concurrently with BIO 511. Cannot receive credit for both BIO 511 and BIO 611. 4(3-2), F

**BIO 613 Industrial Microbiology**

Recommended Prerequisite: microbiology course. 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 bio-reactor construction and design. May be taught concurrently with BIO 512. Cannot receive credit for both BIO 512 and BIO 613. 3(2-2), S

**BIO 616 Evolution**

Recommended Prerequisite: genetics course; and college algebra or pre-calculus mathematics course. 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. May be taught concurrently with BIO 515. Cannot receive credit for both BIO 515 and BIO 616. 3(3-0), F,S

**BIO 617 Microbial Physiology and Metabolism**

Recommended Prerequisite: microbiology course and organic chemistry course. 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. May be taught concurrently with BIO 517. Cannot receive credit for both BIO 517 and BIO 617. 4(2-4), F

**BIO 618 Regulatory Mechanisms**

Recommended Prerequisite: genetics, molecular/cellular biology, microbiology, or biochemistry. The regulation of gene expression and protein/enzyme activity in prokaryotes, eukaryotes and viruses. A content-based lecture and discussion course utilizing both textbook and primary literature. May be taught concurrently with BIO 518. Cannot receive credit for both BIO 618 and BIO 518. 2(1-2), S

**BIO 620 Pathogenic Microbiology**

Recommended Prerequisite: microbiology course. Fundamental principles of pathogenic microbiology; transmission, infection and control of the pathogen. May be taught concurrently with BIO 520. Cannot receive credit for both BIO 520 and BIO 620. 3(3-0), S

**BIO 621 Marine Science for Teachers I**

Prerequisite: 12 hours in biology. Recommended Prerequisite: genetics course. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 521. Cannot receive credit for both BIO 521 and BIO 621. 2(2-0) Su

**BIO 623 Marine Science for Teachers I Lab**

Prerequisite: concurrent enrollment in BIO 621. Laboratory portion of BIO 621. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 522. Cannot receive credit for both BIO 522 and BIO 623. 1(0-2), Su

**BIO 627 Field Biology**

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. May be repeated to a total of 6 credits with a maximum of 3 credits to be applied to the major in biology. Supplemental course fee (variable by section). May be taught concurrently with BIO 527. Cannot receive credit for both BIO 527 and BIO 627. 1-4, D

**BIO 629 Phycology**

Recommended Prerequisite: ecology course. The structure, function, ecological significance, and diversity of algae. Emphasis will be placed on field studies, isolation and growth, and physiological characteristics. May be taught concurrently with BIO 530. Cannot receive credit for both BIO 530 and BIO 629. 3(2-2), S

**BIO 632 Principles of Fisheries Management**

Recommended Prerequisite: ecology or wildlife management course. 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. May be taught concurrently with BIO 532. Cannot receive credit for both BIO 532 and BIO 632. 3(2-2), S

**BIO 633 Wetland Ecology**



Recommended Prerequisite: ecology course; and one year of college chemistry. 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. May be taught concurrently with BIO 533. Cannot receive credit for both BIO 533 and BIO 633. 3(2-2), F

**BIO 635 Coastal Vegetation Lab**

Prerequisite: concurrent enrollment in BIO 641. Laboratory portion of BIO 641. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 535. Cannot receive credit for both BIO 535 and BIO 635. 1(0-2), Su

**BIO 636 Plant Ecology**

Recommended Prerequisite: ecology course. 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. 4(2-4), F

**BIO 637 Salt Marsh Plant Ecology Lab**

Prerequisite: permission of advisor or department head. Recommended Prerequisite: general biology II, plant taxonomy, ecology and plant physiology course. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 537. Cannot receive credit for both BIO 537 and BIO 637. 2(2-0), Su

**BIO 638 Salt Marsh Ecology Lab**

Prerequisite: concurrent enrollment in BIO 637. Laboratory portion of BIO 637. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 538. Cannot receive credit for both BIO 538 and BIO 638. 2(0-4), Su

**BIO 639 Biogeography**

Recommended Prerequisite: general biology I and II courses. Study of patterns of distribution of organisms in space and in time. May be taught concurrently with BIO 539. Cannot receive credit for both BIO 539 and BIO 639. 2(2-0), F

**BIO 640 App of Molecular Markers**

Prerequisite: permission. Recommended Prerequisite: genetics course. 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. Supplemental course fee. May be taught concurrently with BIO 540. Cannot receive credit for both BIO 540 and BIO 640. 4(2-4), FO

**BIO 641 Coastal Vegetation**

Prerequisite: 10 hours of biology and permission of advisor or department head. Recommended Prerequisite: general biology I and II courses. A broad study of the general and specific aspects of coastal vegetation, with emphasis on local examples. Vegetational composition, variation, succession, climax, and distribution. Includes aerial techniques, plant identification, delineation of vegetational types and mapping. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 534. Cannot receive credit for both BIO 534 and BIO 641. 2(2-0), Su

**BIO 644 Plant Physiology**

Recommended Prerequisite: organic chemistry course. Basic chemical and physical principles of plant function considering water relationships, nutrient transport, mineral nutrition, photosynthesis, respiration, and phytohormones. May be taught concurrently with BIO 544. Cannot receive credit for both BIO 544 and BIO 644. 4(3-2), D

**BIO 650 Statistical Methods for Biologists**

Recommended Prerequisite: genetics course and pre-calculus mathematics course. Scientific methodology, experimental design, statistical analysis, and data interpretation applied to biological questions. May be taught concurrently with BIO 550. Cannot receive credit for both BIO 550 and BIO 650. 3(3-0), F,S

**BIO 651 Advanced Statistical Methods for Biologists**

Recommended Prerequisite: statistics course. 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. May be taught concurrently with BIO 551. Cannot receive credit for both BIO 551 and BIO 651. 2(1-2), S

**BIO 654 Marine Ichthyology**

Prerequisite: 16 hours of biology and permission of advisor or department head. Recommended Prerequisite: General Biology I and II, Genetics and Comparative Vertebrate Anatomy. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 555. Cannot receive credit for both BIO 555 and BIO 654. 3(3-0), Su

**BIO 656 Marine Ichthyology Lab**

Prerequisite: concurrent enrollment in BIO 654. Laboratory portion of BIO 654. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 556. Cannot receive credit for both BIO 556 and BIO 656. 3(0-6), Su

#### **BIO 657 Marine Fisheries Management**

Prerequisite: permission of instructor; and concurrent enrollment in BIO 658. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 557. Cannot receive credit for both BIO 557 and BIO 657. 2(2-0), Su

#### **BIO 658 Marine Fisheries Management Lab**

Prerequisite: concurrent enrollment in BIO 657. Laboratory portion of BIO 657. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 558. Cannot receive credit for both BIO 558 and BIO 658. 2(0-4), Su

#### **BIO 659 Population Genetics and Evolutionary Mechanisms**

Recommended Prerequisite: evolution course and statistics course. The theory of genetic variation in populations, with emphasis on quantitative description of the mechanisms of biological evolution. May be taught concurrently with BIO 560. Cannot receive credit for both BIO 560 and BIO 659. 3(3-0), D

#### **BIO 661 Environmental Issues Education and Interpretation**

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 educational setting. May be taught concurrently with BIO 561. Cannot receive credit for both BIO 661 and BIO 561 2(1-2), D

#### **BIO 662 Limnology**

Recommended Prerequisite: ecology course; and one year of college chemistry. Physical, chemical, and biological characteristics of lakes and reservoirs. Laboratory includes mapping, lake models, water chemistry, and surveys of diversity and abundance. Two all-day Saturday labs required. May be taught concurrently with BIO 562. Cannot receive credit for both BIO 562 and BIO 662. 4(2-4), F

#### **BIO 663 Population Ecology**

Recommended Prerequisite: ecology course and pre-calculus mathematics course. Discussion of factors controlling the distribution and abundance of populations. Quantitative description of population dynamics is emphasized. May be taught concurrently with BIO 563. Cannot receive credit for both BIO 563 and BIO 663. 3(2-2), SE

#### **BIO 665 Marine Ecology**

Prerequisite: 16 hours of biology and permission of advisor or department head. Recommended Prerequisite: General Biology I and II. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Concurrent enrollment in BIO 566 required. May be taught concurrently with BIO 565. Cannot receive credit for both BIO 565 and BIO 665. 3(3-0), Su

#### **BIO 666 Marine Ecology Lab**

Prerequisite: concurrent enrollment in BIO 665. Laboratory portion of BIO 665. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 566. Cannot receive credit for both BIO 566 and BIO 666. 2(0-4), Su

#### **BIO 668 Physiological Ecology**

Recommended Prerequisite: ecology course; and general physiology or plant physiology or human physiology course. Physiological adaptations of plants and animals to environmentally stressful conditions and to ecological/evolutionary pressures. May be taught concurrently with BIO 567. Cannot receive credit for both BIO 567 and BIO 668. 4(4-0), SO

#### **BIO 671 Comparative Animal Physiology**

Recommended Prerequisite: general physiology or human physiology course. Organ/system function in a wide range of invertebrate and vertebrate animals. May be taught concurrently with BIO 571. Cannot receive credit for both BIO 571 and BIO 671. 4(3-3), SO

#### **BIO 673 Ornithology**

Prerequisite: 12 hours of biology. Taxonomy, distribution, life histories and ecology of birds; emphasis on Missouri forms. Early morning field trips required. May be taught concurrently with BIO 573. Cannot receive credit for both BIO 573 and BIO 673. 3(2-2), S

#### **BIO 674 Aquatic Entomology**

Aquatic insects, ecology and taxonomy with emphasis on field applications. May be taught concurrently with BIO 574. Cannot receive credit for both BIO 574 and BIO 674. 2(1-3), SE

#### **BIO 675 Ichthyology**

Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of fish with emphasis on Missouri forms. May be taught concurrently with BIO 575. Cannot receive credit for both BIO 575 and BIO 675. 3(2-2), F

#### **BIO 676 Herpetology**

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. May be taught concurrently with BIO 576. Cannot receive credit for both BIO 576 and BIO 676. 3(2-2), S

#### **BIO 677 Mammalogy**



Prerequisite: 12 hours in biology. Taxonomy, distribution, life histories and ecology of mammals with emphasis on Missouri forms. One weekend field trip required. May be taught concurrently with BIO 577. Cannot receive credit for both BIO 577 and BIO 677. 3(2-2), F

**BIO 678 Behavioral Ecology**

Recommended Prerequisite: ecology course and statistics course. Fundamental principles of animal behavior with an emphasis on the study of the ecological and evolutionary processes that influence behavior. May be taught concurrently with BIO 578. Cannot receive credit for both BIO 578 and BIO 678. 4(3-2), S

**BIO 679 Conservation Biology**

Recommended Prerequisite: genetics course and ecology course. An in-depth examination of the science of conservation from a biological perspective, with an examination of ethical and legal aspects of conservation. May be taught concurrently with BIO 579. Cannot receive credit for both BIO 579 and BIO 679. 4(3-2), D

**BIO 680 Vertebrate Anatomy and Evolution**

Vertebrate gross anatomy. Phylogeny and present status of organ systems in vertebrates. May be taught concurrently with BIO 380. Cannot receive credit for both BIO 380 and BIO 680. 2(2-0), F

**BIO 685 Marine Conservation**

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 685 and 485. 1-3, D

**BIO 686 Fish Ecology**

Recommended Prerequisite: ecology course and ichthyology course. The biology of fishes in relation to environmental conditions at the individual, population, and community levels. May be taught concurrently with BIO 584. Cannot receive credit for both BIO 584 and BIO 686. 3(3-0), D

**BIO 687 Marine Invertebrate Zoology**

Prerequisite: 16 hours in biology; and concurrent enrollment in BIO 688. 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. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 587. Cannot receive credit for both BIO 587 and BIO 687. 3(3-0), Su

**BIO 688 Marine Invertebrate Zoo Lab**

Prerequisite: concurrent enrollment in BIO 687. Laboratory portion of BIO 687. May be taught concurrently with BIO 588. Cannot receive credit for both BIO 588 and BIO 688. 3(0-6), Su

**BIO 689 Game Management**

Recommended Prerequisite: wildlife management course. Management of game birds and mammals for recreational utilization. May be taught concurrently with BIO 589. Cannot receive credit for both BIO 589 and BIO 689. 3(3-0), D

**BIO 697 Topics in Biology**

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. May be taught concurrently with BIO 597. Cannot receive credit for both BIO 597 and BIO 697. 1-4, D

**BIO 710 Topics in Microbial Physiology**

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. 3(3-0), D

**BIO 712 Advanced Immunology**

Recommended Prerequisite: immunology course. Cellular aspects of the immune system. 2(2-0), S

**BIO 725 Advanced Limnology**

Recommended Prerequisite: limnology course. Advanced concepts of biological, chemical and physical limnology. Recent symposia, reviews, and primary literature are discussed. Prerequisite: BIO 562. Advanced concepts of biological, chemical and physical limnology. Recent symposia, reviews, and primary literature are discussed. 2(2-0), D

**BIO 726 Advanced Limnology Methods**

Recommended Prerequisite: limnology course. Research and practical application of modern limnological methods are taught. 2(0-4), D

**BIO 728 Recent Advances in Biology**

Prerequisite: permission of instructor. Selected topics in biology to be discussed using original literature as the focal point. Variable content course. May be repeated when topic varies. 1(0-2), F,S

**BIO 730 Advanced Topics in Biology**

Prerequisite: permission of instructor. Individual study in biology; may include literature, field and/or laboratory work. May be repeated. 1-4, F,S

**BIO 734 Advanced Plant Taxonomy**

Prerequisite: permission of instructor. Philosophy and principles of modern taxonomic procedures. 4(2-4), D

**BIO 755 Advanced Developmental Biology**

Recommended Prerequisite: cell biology course. 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 755. 4(3-2), S

**BIO 760 Topics in Teaching Biology**

Prerequisite: permission of instructor. Biological concepts, information, practical experiences, and use of resource materials in the elementary and secondary classroom. Variable content course. May be repeated when topic varies. 1-3, D

**BIO 767 Advanced Vertebrate Zoology**

Evolutionary relationships of living and extinct vertebrates; analysis of geographic distribution and adaptive radiation. Includes field/lab experiences to be arranged. 3(2-2), D

**BIO 790 Degree Paper**

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. May be repeated to total of 4 hours. Graded Pass/Not Pass only. 2(2-0), D

**BIO 794 Scientific Writing**

Organization and methods in scientific writing. Included are discussion 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. 2(2-0), F

**BIO 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**BIO 798 Research**

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 MS degree. Graded Pass/Not Pass only. 1-6, D

**BIO 799 Thesis**

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 MS degree. Graded Pass/Not Pass only. 1-6, D

Office of the Registrar  
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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Chemistry

## Department of Chemistry

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Email: [Chemistry@missouristate.edu](mailto:Chemistry@missouristate.edu)  
Website: <http://chemistry.missouristate.edu>  
Department Head: Professor G. Alan Schick, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Richard N. Biagioni, Ph.D.; Eric Bosch, Ph.D.; Annette W. Gordon, Ph.D.; M. Reza Sedaghat-Herati, Ph.D.; Tamera S. Jahnke, Ph.D.; Mark M. Richter, Ph.D.; Shujun Su, Ph.D.; Anthony P. Toste, Ph.D.

**Associate Professors:** Bryan E. Breyfogle, Ph.D.; Dean A. Cuebas, Ph.D.; Nikolay N. Gerasimchuk, Ph.D.; Gary Meints, Ph.D.; Erich D. Steinle, Ph.D.

**Assistant Professors:** Bhaskar Datta, Ph.D.; Adam Wanekaya, Ph.D.

**Instructors:** Brian D. High, M.S.; Kathryn A. Shade, M.S.; Diann M. Thomas, Ph.D.

**Emeritus Professors:** Robert L. Ernst, Ph.D.; Wyman K. Grindstaff, Ph.D.; Doris C. Lorz, M.S.; James F. O'Brien, Ph.D.; Ralph W. Sheets, Ph.D.; Vernon J. Thielmann, Ph.D.; Clifton C. Thompson, Ph.D.; Paul M. Toom, Ph.D.; James M. Wilbur, Jr., Ph.D.

### Accreditation

American Chemical Society (ACS) – Chemistry/Graduate School and Chemistry/Industrial, B.S.; 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.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

CHM 197 and CHM 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.

### Graduate Programs

The following graduate programs are available:

Chemistry (Master of Science); Plant Science (Master of Science); Secondary Education with option in Chemistry (Master of Science in Education); and Master of Natural and Applied Sciences degree with an area of emphasis in Chemistry.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Natural and Applied Science Degree

Eligible Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Science Degree in Chemistry

Eligible Missouri State undergraduate students majoring in chemistry may apply for preliminary acceptance into the Master of Science program in Chemistry after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours of approved graduate courses may be counted towards both the undergraduate and graduate degrees (Mixed Credit). This option offers an opportunity for chemistry majors with undergraduate laboratory research experience to complete the requirements for the Master of Science degree in Chemistry in two semesters and a summer after attaining the Bachelor's degree, rather than the typical four semesters and a summer. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Science Degree in Plant Science

Eligible Missouri State undergraduate students majoring in Agriculture, Biology, and Chemistry may apply for preliminary acceptance into the Master of Science program in Plant Science after admission requirements for the accelerated masters option

have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted towards both the undergraduate and graduate degrees (Mixed Credit). The courses must be in the area of economic botany, plant physiology, plant genetics, crop management systems, plant nutrition, soils, chemistry, ecology, fruit production, viticulture, entology, or ornamental plants and landscaping.

This option is tailored to those undergraduates who have acquired considerable plant science-related research experience in a laboratory through the departments of Agriculture, Biology or Chemistry at Missouri State. Courses to be counted toward both degrees must be identified jointly in agreement with the undergraduate advisor, the student's research mentor, and the Plant Science Program Director. This option will enable Agriculture, Biology or Chemistry majors to potentially meet the requirements for the MS in Plant Science degree within two semesters following the completion of the undergraduate degree. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## General Information

**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 CHM 342 and CHM 343 or CHM 342 and CHM 344 but not if they take CHM 200) 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.

## Majors

### Chemistry (Non-Comprehensive)

Bachelor of Science

**Note: Effective Spring 2012 CHM 175 will change to CHM 171 and credit hours will change from 2 to 1.**

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements

1. CHM 160(4)\*, 161(1)\*, 170(3), 171(1), 302(5), 342(5), 343(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

\*Will also count toward General Education Requirements

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 352(3), 376(2), 399 or 499 (2-3), 460(3), 509(2)

b. For students with a strong interest in environmental chemistry: CHM 460(3), 461(3), 462(2)

c. For students with a strong interest in biochemistry or pre-medicine: CHM 452(3), 453(2), 552(3), 553(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 (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Chemistry (Comprehensive)

Bachelor of Science

**Note: Effective Spring 2012 CHM 175 will change to CHM 171 and credit hours will change from 2 to 1.**

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements

1. CHM 160(4)\*, 161(1)\*, 170(3), 171(1), 302(5), 342(5), 343(5), 375(3), 398(1), 452(3), 498(1), 506(3), 507(3), 508(2), 533(4), 575(3)

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 options:

a. **Biochemistry:** 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), 453(2), 552(3), 553(2); BIO 121(4)\*, 235(4), 320(4) Suggested electives: BIO 310(5). Premedical students should also take courses in anatomy and physiology.

b. **Graduate School:** 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), 542(3), 552(3). Suggested electives: one year foreign language

- c. **Industrial:** 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 542(3), four hours selected from 397(2), 399(1-3), 499(1-3)

*\* Will also count toward General Education Requirements*

- C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

### Chemistry Education

Bachelor of Science in Education  
(Certifiable grades 9-12)

**Note: Effective Spring 2012 CHM 175 will change to CHM 171 and credit hours will change from 2 to 1.**

- A. General Education Requirements - see **General Education Program and Requirements** section of catalog  
The following required courses can be used to meet both General Education and Major Requirements: BIO 121(4); CHM 160(4) and 161(1) 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), 161(1), 170(3), 171(1); CHM 200(5), or CHM 342(5) and CHM 343(5), or CHM 342(5) and CHM 344(3); CHM 302(5), 352(3), 460(3), 435(2), 505(4)  
Note: Students seeking American Chemical Society certification must take either CHM 342 and 343, or CHM 342 and 344.
  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 463(1); BIO 122(4); GLG 110(4); GRY 135(4)
- C. Professional Education courses (37 hours): SCI 214(1), 314(3), 414(3), 493(6), 494(6); and the Professional Education Required Core and Competencies - see **Teacher Certification, Teacher Education Program and Secondary Education Requirements** section of catalog
- D. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree 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

**Note: Effective Spring 2012 CHM 175 will change to CHM 171 and credit hours will change from 2 to 1.**

- A. CHM 160(4), 161(1), 170(3), 171(1); CHM 200(5) or CHM 342(5)
- B. Select an emphasis area from the options below:
1. Analytical: CHM 302(5)
  2. Biochemistry: CHM 352(3) and 353(2); or CHM 452(3) and 453(2)
  3. Environmental: CHM 460(3) and 461(3)
  4. Inorganic: CHM 375(3) and 376(2)
  5. Organic: CHM 343(5) or 344(3); and CHM 514(3) or CHM 542(3)
  6. Physical: CHM 506(3); and CHM 507(3) or 508(2)
  7. Student Option: Select at least 8 hours in CHM courses numbered 302 or higher.

## Chemistry Courses

### CHM 105 Fundamentals of Chemistry

Prerequisite: eligibility for MTH 103 or have completed MTH 103, or be concurrently enrolled in MTH 102. General Education Course (Natural World). 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. 5(4-2) F,S

### CHM 106 Fundamentals of Chemistry

Prerequisite: eligibility for MTH 103 or have completed MTH 103, or be concurrently enrolled in MTH 102. General Education Course (Natural World). 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. 4(4-0) F,S

#### **CHM 107 Chemistry for the Citizen**

General Education Course (Natural World). 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. 4(3-2) F,S

#### **CHM 160 General Chemistry I**

Prerequisite: eligibility for MTH 135 or higher. General Education Course (Natural World). Emphasis on fundamental and theoretical concepts of chemistry. Recommended for all science majors, chemistry majors and minors, and most preprofessional students. Concurrent enrollment in CHM 161 is highly recommended. A grade of "C-" or better is required in this course in order to take CHM 170, CHM 171, or CHM 200. May not be taken Pass/Not Pass. 4(4-0) F,S

#### **CHM 161 General Chemistry I Laboratory**

Prerequisite: CHM 160 or concurrent enrollment. An introduction to laboratory chemistry employing principles and techniques that reflect material presented in CHM 160, e.g., synthesis, stoichiometry, physical studies, and data manipulation and interpretation. A grade of "C-" or better is required in this course in order to take CHM 171. May not be taken Pass/Not Pass. 1(0-2) F,S

#### **CHM 170 General Chemistry II**

Prerequisite: "C-" grade or better in CHM 160. Emphasis on reaction kinetics, chemical equilibrium, precipitation reactions, acid-base theory and oxidation-reduction reactions. Concurrent registration in CHM 171 is highly recommended. A grade of "C-" or better is required in this course in order to take CHM 342, 352, or 506. May not be taken Pass/Not Pass. 3(3-0) F,S

#### **CHM 171 General Chemistry II Laboratory**

Prerequisite: CHM 170 or concurrent enrollment; and a "C-" or better in CHM 160 and CHM 161. An introduction to laboratory chemistry, employing principles and techniques that reflect material presented in CHM 170, e.g., physical studies on kinetics and equilibria of aqueous systems, 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 302 or 342. May not be taken Pass/Not Pass. 1(0-3) F,S

#### **CHM 197 Chemical Topics**

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. 1-3 F,S

#### **CHM 200 Essentials of Organic Chemistry**

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 342. A grade of "C-" or better is required in this course in order to take CHM 352. May not be taken Pass/Not Pass. Lecture portion identical to CHM 201. Cannot receive credit for both CHM 200 and CHM 201. Supplemental course fee. 5(4-3) F,S

#### **CHM 201 Essentials of Organic Chemistry**

Prerequisite: a "C-" grade or better in CHM 105 or CHM 160. Principles of organic chemistry and biochemistry. Identical to lecture portion of CHM 200. Cannot receive credit for both CHM 200 and CHM 201. Does not apply toward a chemistry major or minor if student passes CHM 342. 3(3-0) F,S

#### **CHM 240 Glass Working**

Prerequisite: CHM 170. Instruction and practice in glass-working techniques needed to make simple apparatus. 1(0-2) D

#### **CHM 260 Principles of Environmental Chemistry**

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. 3(3-0) SE

#### **CHM 300 Service Learning in Chemistry**

Prerequisite: 30 hours, 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. 1 F,S

#### **CHM 302 Introduction to Analytical Chemistry**

Prerequisite: "C-" grade or better in both CHM 170 and CHM 171. Fundamentals of chemical analysis and basic statistics; solution equilibria, fundamentals of spectrophotometric, chromatographic, and electrochemical methods. Laboratory includes both wet chemical and instrumental methods. Representative analyses are performed in laboratory. 5(3-4), F,S

#### **CHM 342 Organic Chemistry I**

Prerequisite: "C-" grade or better in both CHM 170 and CHM 171. 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 343, CHM 344 or CHM 352. May not be taken Pass/Not Pass. Supplemental course fee. 5(4-3), F,S

#### **CHM 343 Organic Chemistry II**

Prerequisite: "C-" grade or better in CHM 342. Continuation of CHM 342. A grade of "C-" or better is required in this course in order to take CHM 542. May not be taken Pass/Not Pass. Supplemental course fee. 5(4-3), F,S

#### **CHM 344 Organic Chemistry II**

Prerequisite: "C-" grade or better in CHM 342. Continuation of the lecture part of CHM 342. (Identical to lecture part of CHM 343.) A grade of "C-" or better is required in this course in order to take CHM 542. May not be taken Pass/Not Pass. 3(3-0), F,S

#### **CHM 352 Introduction to Biochemistry**

Prerequisite: "C-" grade or better in either CHM 200 or CHM 342. Recommended Prerequisite: 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 452. 3(3-0), F,S

#### **CHM 353 Introduction to Biochemistry Laboratory**

Prerequisite: CHM 171 or CHM 200 or CHM 342; and CHM 352 or concurrent enrollment. Introduction to modern biochemical techniques including buffer preparation, chromatographic separations and spectrophotometric analysis of biomolecules. CHM 353 and 453 cannot both be applied toward a chemistry major or minor. Supplemental course fee. 2(0-4), F,S

#### **CHM 375 Inorganic Chemistry**

Prerequisite: "C-" grade or better in CHM 170. Atomic structure, chemical bonding, acid/base and reduction/oxidation concepts, reactivity of inorganic compounds, chemistry of main group elements, fundamentals of coordination theory. A grade of "C-" or better is required in this course in order to take CHM 575. May not be taken Pass/Not Pass. May be taught concurrently with CHM 674. Cannot receive credit for both CHM 375 and CHM 674. 3(3-0) F

#### **CHM 376 Inorganic Preparation**

Prerequisite: "C-" grades or better in CHM 171 and CHM 375. Synthesis of inorganic compounds and measurements of physical and chemical properties of selected inorganic compounds. 2(0-4) S

#### **CHM 397 Cooperative Education in Chemistry**

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. 2 F,S

#### **CHM 398 Chemical Symposium**

Prerequisite: 14 hours of chemistry. Recommended Prerequisite: take within the first 75 hours. Introduction to oral and written scientific communication, laboratory safety, ethics, scientific literature searching and software, and current trends in chemical research. Does not count toward a chemistry minor. 1(1-0) F,S

#### **CHM 399 Undergraduate Investigations**

Prerequisite: permission of instructor. Individual investigation of a chemical problem. May be repeated to a total of 5 hours. 1-3 F,S

#### **CHM 435 Investigations in Chemistry for Teachers**

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 735. Cannot receive credit for both CHM 435 and CHM 735. 1(0-2) SO

#### **CHM 452 Biochemistry I**

Prerequisite: "C-" or better in CHM 343 or CHM 344. Recommended Prerequisite: BIO 121 or BMS 110. Structure and function of biomolecules: proteins, enzymes, nucleic acids, carbohydrates, lipids and membranes. 3(3-0), F

#### **CHM 453 Biochemistry Laboratory I**

Prerequisite: CHM 452 or concurrent enrollment. 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 353 and 453 cannot both be applied toward a chemistry major or minor. Supplemental course fee. 2(0-4), F

#### **CHM 460 Environmental Chemistry I**

Prerequisite: "C-" or better in CHM 170; and "C-" or better in CHM 200 or CHM 342. Recommended Prerequisite: CHM 302. Chemistry of water and soil, water treatment, agricultural chemistry and related topics. May be taught concurrently with CHM 760. Cannot receive credit for both CHM 460 and CHM 760. 3(3-0), F

#### **CHM 461 Environmental Chemistry II**

Prerequisite: "C-" or better in CHM 200 or CHM 342. Recommended Prerequisite: some advanced coursework in chemistry, geosciences, biology, or related fields. Atmospheric chemistry; pollution issues related to power production and transportation; energy sources and fuels. May be taught concurrently with CHM 761. Cannot receive credit for both CHM 461 and CHM 761. 3(3-0), S

#### **CHM 462 Environmental Chemistry Laboratory**

Prerequisite: "C-" or better in CHM 302 and CHM 460. 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 762. Cannot receive credit for both CHM 462 and CHM 762. Cannot receive credit for both CHM 462 and CHM 463. 2(0-4), S

#### **CHM 463 Environmental Analysis**

Prerequisite: "C-" or better in CHM 302 and CHM 460. Techniques and procedures for environmental analysis of natural water samples with an emphasis on wet chemical methods. Cannot receive credit for both CHM 462 and CHM 463. Scheduled as first block class. 1(0-2), S

#### **CHM 498 Chemistry Careers**

Prerequisite: senior status chemistry major and permission of department head. Taken during second semester senior year.



Successful completion of the chemistry assessment test will be required. Writing scientific resumes and cover letters, discussion of chemistry careers, graduate school, job-hunting resources and professional ethics. Outside speakers from chemistry-related employers will be invited. Interaction with the Career Center will be required. 1(1-0) F,S

#### **CHM 499 Advanced Undergraduate Research**

Prerequisite: senior standing Chemistry major. Individual research problems in chemistry. A written report is required for this course. May be repeated to a total of 5 hours. 1-3 F,S

#### **CHM 502 Techniques of Instrumental Analysis**

Prerequisite: "C-" or better in CHM 200 or CHM 342; and "C-" or better in CHM 302. Recommended Prerequisite: 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 533. May be taught concurrently with CHM 602. Cannot receive credit for both CHM 602 and CHM 502. 4(3-3) F

#### **CHM 505 Fundamentals of Physical Chemistry**

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. May be taught concurrently with CHM 605. Cannot receive credit for both CHM 605 and CHM 505. 4(3-3) S

#### **CHM 506 Physical Chemistry I**

Prerequisite: "C-" or better in CHM 170; and MTH 280 or MTH 288 or concurrent enrollment in MTH 280 or MTH 288. Recommended Prerequisite: PHY 124 or PHY 204. First semester of a two-semester series covering aspects of quantum mechanics, classical and statistical thermodynamics, spectroscopy, kinetic theory of gases, and chemical kinetics. A grade of "C-" or better is required in this course in order to take CHM 507. May not be taken Pass/Not Pass. May be taught concurrently with CHM 606. Cannot receive credit for both CHM 606 and CHM 506. 3(3-0) F

#### **CHM 507 Physical Chemistry II**

Prerequisite: "C-" grade or better in CHM 506. Recommended Prerequisite: CHM 375. Second semester of a two-semester series that builds upon and completes the topics introduced in CHM 506. May be taught concurrently with CHM 607. Cannot receive credit for both CHM 607 and CHM 507. 3(3-0) S

#### **CHM 508 Physical Chemistry Laboratory I**

Prerequisite: "C-" or better in CHM 302; and "C-" or better in CHM 506 or CHM 606 or concurrent enrollment in CHM 506 or CHM 606. Experiments in physical chemistry employing principles and techniques reflecting material presented in CHM 506. May be taught concurrently with CHM 608. Cannot receive credit for both CHM 608 and CHM 508. 2(0-4) F

#### **CHM 509 Physical Chemistry Laboratory II**

Prerequisite: CHM 507 or CHM 607 or concurrent enrollment; and CHM 508 or CHM 608. Experiments in physical chemistry employing principles and techniques reflecting material presented in CHM 507. May be taught concurrently with CHM 609. Cannot receive credit for both CHM 609 and CHM 509. 2(0-4) S

#### **CHM 514 Polymer Chemistry**

Prerequisite: "C-" or better in CHM 343 or CHM 344; and "C-" or better in CHM 505 or CHM 605 or CHM 506 or CHM 606. 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. May be taught concurrently with CHM 614. Cannot receive credit for both CHM 614 and CHM 514. 3(3-0) SE

#### **CHM 533 Advanced Analytical Methods**

Prerequisite: "C-" or better in CHM 302. Principles and techniques of modern instrumental methods used in chemical analysis, with emphasis on the fundamental physical and chemical theories and principles. Topics covered include atomic and molecular spectroscopy, electrochemistry, mass spectrometry, and separations. May be taught concurrently with CHM 633. Cannot receive credit for both CHM 533 and CHM 633. 4(3-3), F

#### **CHM 542 Advanced Organic Chemistry**

Prerequisite: "C-" grade or better in CHM 343 or CHM 344. Structure, reaction mechanisms, stereochemistry and other topics of theoretical nature in organic and polymer chemistry. May be taught concurrently with CHM 642. Cannot receive credit for both CHM 542 and CHM 642. 3(3-0), F

#### **CHM 552 Biochemistry II**

Prerequisite: "C-" or better in CHM 452. Bioenergetics--Metabolism of biomolecules including carbohydrates, lipids, amino acids and nucleotides. Photosynthesis. Nitrogen metabolism. Mechanisms of hormone action. May be taught concurrently with CHM 652. Cannot receive credit for both CHM 552 and CHM 652. 3(3-0), S

#### **CHM 553 Advanced Biochemistry Laboratory**

Prerequisite: CHM 453; and CHM 552 or concurrent enrollment. Emphasis on modern techniques in the biochemistry laboratory; enzymology, protein purification and analysis; protein structure determination; isoelectric focusing; HPLC; trace techniques. Supplemental course fee. May be taught concurrently with CHM 653. Cannot receive credit for both CHM 553 and CHM 653. 2(0-4), D

#### **CHM 574 Intermediate Inorganic Chemistry**

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 575. CHM 375 may be taught concurrently with CHM 574. Cannot receive credit for both CHM 375 and CHM 574. May be taught concurrently with CHM 674. Cannot receive credit for both CHM 574 and CHM 674. 3(3-0), F



#### **CHM 575 Advanced Inorganic Chemistry**

Prerequisite: "C-" or better in CHM 375; and "C-" or better in CHM 507 or concurrent enrollment. Theories and techniques of modern inorganic chemistry; correlation of theories with inorganic compounds. May be taught concurrently with CHM 675. Cannot receive credit for both CHM 575 and CHM 675. 3(3-0), S

#### **CHM 597 Special Topics in Chemistry**

Prerequisite: 18 hours of chemistry. Selected topics of a theoretical or applied nature. May be repeated up to a total of 6 hours with differing topics. May be taught concurrently with CHM 697. Cannot receive credit for both CHM 697 and CHM 597. 1-3 D

#### **CHM 602 Techniques of Instrumental Analysis**

Prerequisite: "C-" or better in either CHM 200 or CHM 342; and "C-" or better in CHM 302. Recommended Prerequisite: 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 if the student passes CHM 702. May be taught concurrently with CHM 502. Cannot receive credit for both CHM 502 and CHM 602. 4(3-3), F

#### **CHM 605 Fundamentals of Physical Chemistry**

Prerequisite: 20 hours of chemistry; 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 if the student passes CHM 606. May be taught concurrently with CHM 505. Cannot receive credit for both CHM 505 and CHM 605. 4(3-3), S

#### **CHM 606 Physical Chemistry I**

Prerequisite: "C-" or better in CHM 170; and MTH 280 or MTH 288 or concurrent enrollment in MTH 280 or MTH 288. Recommended Prerequisite: PHY 124 or PHY 204. First semester of a two-semester series covering aspects of quantum mechanics, classical and statistical thermodynamics, spectroscopy, kinetic theory of gases, and chemical kinetics. A grade of "C-" or better is required in this course in order to take CHM 607. May be taught concurrently with CHM 506. Cannot receive credit for both CHM 606 and CHM 506. 3(3-0) F

#### **CHM 607 Physical Chemistry II**

Prerequisite: "C-" grade or better in CHM 506 or 606. Recommended Prerequisite: CHM 375. Second semester of a two-semester series that builds upon and completes the topics introduced in CHM 606. May be taught concurrently with CHM 507. Cannot receive credit for both CHM 607 and CHM 507. 3(3-0) S

#### **CHM 608 Physical Chemistry Laboratory I**

Prerequisite: "C-" or better in CHM 302; and "C-" or better in CHM 506 or CHM 606 or concurrent enrollment in CHM 506 or CHM 606. Experiments in physical chemistry employing principles and techniques reflecting material presented in CHM 506 or 606. May be taught concurrently with CHM 508. Cannot receive credit for both CHM 608 and CHM 508. 2(0-4) F

#### **CHM 609 Physical Chemistry Laboratory II**

Prerequisite: CHM 507 or CHM 607 or concurrent enrollment; and CHM 508 or CHM 608. Experiments in physical chemistry employing principles and techniques reflecting material presented in CHM 507 or 607. May be taught concurrently with CHM 509. Cannot receive credit for both CHM 609 and CHM 509. 2(0-4) S

#### **CHM 614 Polymer Chemistry**

Prerequisite: "C-" or better in CHM 343 or CHM 344; and CHM 505 or CHM 605 or CHM 506 or CHM 606. 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. May be taught concurrently with CHM 514. Cannot receive credit for both CHM 514 and CHM 614. 3(3-0), SE

#### **CHM 633 Advanced Analytical Methods**

Prerequisite: "C-" or better in CHM 302. Principles and techniques of modern instrumental methods used in chemical analysis, with emphasis on the fundamental physical and chemical theories and principles. Topics covered include atomic and molecular spectroscopy, electrochemistry, mass spectrometry, and separations. May be taught concurrently with CHM 533. Cannot receive credit for both CHM 533 and CHM 633. 4(3-3), F

#### **CHM 642 Advanced Organic Chemistry**

Prerequisite: "C-" grade or better in CHM 343 or CHM 344. Structure, reaction mechanisms, stereochemistry and other topics of theoretical nature in organic and polymer chemistry. May be taught concurrently with CHM 542. Cannot receive credit for both CHM 542 and CHM 642. 3(3-0), F

#### **CHM 652 Biochemistry II**

Prerequisite: "C-" or better in CHM 452. Bioenergetics--Metabolism of biomolecules including carbohydrates, lipids, amino acids and nucleotides. Photosynthesis. Nitrogen metabolism. Mechanisms of hormone action. May be taught concurrently with CHM 552. Cannot receive credit for both CHM 552 and CHM 652. 3(3-0), S

#### **CHM 653 Advanced Biochemistry Laboratory**

Prerequisite: CHM 453; and CHM 552 or CHM 652 concurrent enrollment in CHM 552 or CHM 652. Emphasis on modern techniques in the biochemistry laboratory; enzymology, protein purification and analysis; protein structure determination; isoelectric focusing; HPLC; trace techniques. Supplemental course fee. May be taught concurrently with CHM 553. Cannot receive credit for both CHM 553 and CHM 653. 2(0-4), D

#### **CHM 674 Intermediate Inorganic Chemistry**

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 675. May be taught concurrently with CHM 375. Cannot receive credit for both CHM 375 and CHM 674. May be taught concurrently with CHM 574. Cannot receive credit for both CHM

574 and CHM 674. 3(3-0), F

**CHM 675 Advanced Inorganic Chemistry**

Prerequisite: "C-" or better in CHM 375; and CHM 507 or CHM 607 or concurrent enrollment in CHM 507 or CHM 607. Theories and techniques of modern inorganic chemistry; correlation of theories with inorganic compounds. May be taught concurrently with CHM 575. Cannot receive credit for both CHM 575 and CHM 675. 3(3-0), S

**CHM 697 Special Topics in Chemistry**

Prerequisite: 18 hours of chemistry. Selected topics of a theoretical or applied nature. May be repeated up to a total of 6 hours with differing topics. May be taught concurrently with CHM 597. Cannot receive credit for both CHM 597 and CHM 697. 1-3, D

**CHM 700 Chemistry Colloquium**

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 may be counted toward the 32-hour requirement for the MS in Chemistry degree. 1(1-0), F,S

**CHM 701 Chemistry Seminar**

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 700 must be enrolled in CHM 701. Hours earned will not count toward the 32-hour requirement for the MS in Chemistry degree. Graded Pass/Not Pass only. 1(1-0), F,S

**CHM 702 Advanced Techniques in Chemical Analysis**

Prerequisite: CHM 602 or CHM 633. Advanced topics in modern instrumental analysis, instrumentation, and methods, including data acquisition methods, data manipulation and analysis, and electronics. 3(3-0), SO

**CHM 710 Special Topics in Chemical Education**

Prerequisite: coursework 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. 1-3, D

**CHM 720 Topics in Theoretical Chemistry**

Prerequisite: coursework sufficient to meet Missouri certification standards in chemistry for secondary teaching or permission. Nature of matter including atomic structure, chemical bonding and spectroscopy. 3(3-0), D

**CHM 735 Investigation in Chemistry for Teachers**

Prerequisite: coursework sufficient to meet Missouri certification standards for secondary/middle school science teaching. Techniques in performing science investigation with application to secondary and middle school science. May be taught concurrently with CHM 435. Cannot receive credit for both CHM 435 and CHM 735. 3(1-4), S

**CHM 740 Seminar**

Extensive paper on selected topics to be read before staff seminars. May be repeated to total 4 hours. 2(2-0), D

**CHM 742 Physical Organic Chemistry**

Prerequisite: CHM 642. An in-depth study of the experimental techniques and physical principles used for the determination of organic reaction mechanisms. 3(3-0), D

**CHM 752 Advanced Topics in Biochemistry**

Prerequisite: CHM 652. 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. Variable content course. May be repeated to a total of 6 hours with differing topics. 3(3-0), SO

**CHM 760 Chemistry of Environmental Systems I**

Chemistry of water and soil, water treatment, agricultural chemistry, and related topics. May be taught concurrently with CHM 460. Cannot receive credit for both CHM 460 and CHM 760. 3(3-0), F

**CHM 761 Chemistry of Environmental Systems II**

Prerequisite: CHM 760. Recommended Prerequisite: some advanced coursework in chemistry, geosciences, biology, or related fields. Atmospheric chemistry; pollution issues related to power production and transportation; energy sources and fuels. May be taught concurrently with CHM 461. Cannot receive credit for both CHM 761 and CHM 461. 3(3-0), S

**CHM 762 Chemistry of Environmental Systems Laboratory**

Prerequisite: CHM 760 or concurrent enrollment. 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. May be taught concurrently with CHM 462. Cannot receive credit for both CHM 462 and CHM 762. 2(0-4), S

**CHM 770 Chemical Kinetics**

Prerequisite: CHM 606. 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. 3(3-0), FO

**CHM 771 Chemical Bonding**

Prerequisite: CHM 607. Quantum mechanics; atomic and molecular structure; computational procedures. Independent study project required. 3(3-0), FE

**CHM 775 Organometallic Chemistry**

Prerequisite: CHM 675. An in-depth examination of the structure, properties, and reactions of molecules containing one or more metal atoms bonded to organic fragments. 3(3-0), FE

**CHM 790 Advanced Topics in Chemistry**

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. Variable content course. May be repeated to a total of 6 hours with differing topics. 1-3, D

**CHM 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**CHM 798 Research**

Supervised research in special chemistry areas. May be repeated, but not more than 6 hours of CHM 798 may be counted toward the 32-hour requirement for the MS degree. 1-4, F,S

**CHM 799 Thesis**

Independent research and study connected with preparation of thesis. Not more than 6 hours of CHM 799 may be counted toward the 32-hour requirement for the MS degree. 1-6, D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Computer Science

## Department of Computer Science

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Website: <http://cs.missouristate.edu>  
Department Head: Professor Kenneth Vollmar, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Lloyd Smith, Ph.D.; Yang Wang, Ph.D.

**Associate Professors:** Hui Liu, Ph.D.; Jamil M. Saquer, Ph.D.; Eric Shade, Ph.D.

**Assistant Professor:** Richard Martin, Ed.D.

**Senior Instructor:** Michael Scroggins, M.B.A.

**Lecturer:** Harry Shea, M.S.

**Emeritus Professors:** Melvin V. Foster, Ph.D.; Ivon H. Lowsley, Jr., Ph.D.; Edward H. Matthews, Ph.D.

### Accreditation

Computing Accreditation Commission (CAC) of ABET – Computer Science, B.S.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Master of Natural and Applied Science degree with an area of emphasis in Computer Science.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Natural and Applied Science Degree

Eligible Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### General Information

**Computers for Learning 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 hours are not granted for this examination. For more information, visit the web site at <http://learning.missouristate.edu>.

### Majors

#### Computer Science (Non-Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements

1. CSC 130(3), 131(4), 232(4), 320(4), 325(3), 333(4), 335(3), 450(3), 460(3), 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 **General Baccalaureate Degree Requirements** section of catalog

## Minors

### Computer Science

Bachelor of Arts

- A. CSC 130(3); and CSC 121(3) or CSC 125(4) or CSC 131(4)
- B. Nine additional hours from eligible CSC courses numbered 232 or above to bring total hours in minor to at least 15. Courses not eligible: CSC 399, 500, 505, and 510.

### Computer Science

Bachelor of Science

- A. CSC 130(3); and CSC 121(3) or CSC 125(4) or CSC 131(4)
- B. Six additional hours from eligible CSC courses numbered 232 or above to bring total hours in minor to at least 12. Courses not eligible: CSC 399, 500, 505, and 510.

### Informatics

Bachelor of Science

- A. CSC 131(4), 232(4), 335(3), 587(3);
- B. MTH 261(5) or MTH 287(3); MTH 280(5) or MTH 288(3); BIO 550(3) or MTH 545(3)

## Computer Science Courses

### CSC 101 Computers for Learning

General Education Course (Basic Required Courses). Fundamental computer concepts including word processing spreadsheets, assessing information and the responsible use of information and technology. Course may be waived by proficiency exam. Identical with CIS 101. Cannot receive credit for both CIS 101 and CSC 101. 2(1-2) F,S

### CSC 111 Introduction to Computing

Prerequisite: eligible for MTH 261. General Education Course (Basic Required Courses). 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. 3(2-2) F,S

### CSC 121 Introduction to BASIC Programming

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. 3(3-0) S

### CSC 125 Introduction to C++ Programming

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. 4(3-2) F

### CSC 130 The World of Computer Science

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. 3(3-0) F,S

### CSC 131 Introduction to Computer Science I

Prerequisite: CSC 130 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. 4(3-2) F,S

### CSC 197 Introductory Topics in Computer Science

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. 1-3 D

### CSC 226 Special Languages

Study of computer languages and their use in particular application domains. 3(3-0) D

### CSC 232 Introduction to Computer Science II

Prerequisite: CSC 130; "C" or better in CSC 131; and MTH 215 or MTH 315 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. 4(3-2) F,S

### CSC 300 Service Learning in Computer Science

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. 1 F,S

#### **CSC 320 Computer Architecture**

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. 4(4-0) F,S

#### **CSC 325 Algorithms and Advanced Data Structures**

Prerequisite: CSC 232 and either MTH 215 or MTH 315. 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. 3(3-0) F,S

#### **CSC 333 Languages and Machines**

Prerequisite: CSC 232; and CSC 320 or concurrent enrollment; and MTH 215 or MTH 315. 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. 4(4-0) F,S

#### **CSC 335 Database System Concepts**

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. 3(3-0) F

#### **CSC 365 Internet Programming**

Prerequisite: CSC 121 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. 3(3-0) S

#### **CSC 399 Cooperative Education in Computer Science**

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. 1-3 D

#### **CSC 421 Numerical Analysis I**

Prerequisite: MTH 280. Recommended: CSC 125 or CSC 131. Solution of systems of linear and nonlinear equations, interpolation, integration, approximation, matrix computations. Problem solution will include the use of software. Identical with MTH 421. Cannot receive credit for both CSC 421 and MTH 421. 3(3-0) D

#### **CSC 422 Numerical Analysis II**

Prerequisite: MTH 303 and MTH 421. Solution of initial and boundary value problems in ordinary and partial differential equations, simulation, and optimization. Problem solution will include the use of software. Identical with MTH 422. Cannot receive credit for both CSC 422 and MTH 422. 3(3-0) D

#### **CSC 423 Digital Simulation**

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. 3(3-0) D

#### **CSC 450 Introduction to Software Engineering**

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. 3(3-0) F,S

#### **CSC 460 Theory of Computer Operating Systems**

Prerequisite: CSC 320 and CSC 325. A study of the concepts and implementation techniques used on modern operating systems. Core topics include processes, threads, interprocess communication, deadlocks, memory management, file systems, I/O systems, security and distributed systems. 3(3-0) F,S

#### **CSC 482 Seminar in Computer Science**

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. 1(1-0) F,S

#### **CSC 500 Hardware, Software, and Troubleshooting Personal Computers**

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. May be taught concurrently with CSC 600. Cannot receive credit for both CSC 600 and CSC 500. 3(2-2) D

#### **CSC 505 Web-Based Resources in Educational Settings**

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. May be taught concurrently with CSC 605. Cannot receive credit for both CSC 605 and CSC 505. 2(2-0) D

#### **CSC 510 Networking and Telecommunications in Educational Settings**

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. May be taught concurrently with CSC 610. Cannot receive credit for both CSC 610 and CSC 510. 2(2-0) D

#### **CSC 521 Compiler Construction**

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. May be taught concurrently with CSC 621. Cannot receive credit for both CSC 621 and CSC 521. 4(3-2) D

#### **CSC 525 Computer Graphics**

Prerequisite: CSC 232 and either MTH 215 or MTH 315. 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 525 and CSC 625. 3(3-0) F

#### **CSC 526 Methods of Optimization**

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. May be taught concurrently with CSC 626. Cannot receive credit for both CSC 626 and CSC 526. 3(3-0) D

#### **CSC 535 Data Mining**

Prerequisite: CSC 232. 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 535 and CSC 635. 3(3-0) D

#### **CSC 540 Introduction to Artificial Intelligence**

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 540 and CSC 640. 3(3-0) S

#### **CSC 545 Computer Speech, Music and Images**

Prerequisite: CSC 232. 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 545 and CSC 645. 3(3-0) D

#### **CSC 565 Computer Networks**

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 565 and CSC 665. 3(3-0) F

#### **CSC 567 Wireless Networks**

Prerequisite: CSC 465. An introduction to the fundamental theory, concepts and techniques of wireless communication, wireless networks, network architecture, and wireless applications. Students will gain an understanding of the significance that wireless systems and user mobility have on the construction and handling of a data or telecommunications network. Topics include wireless and ad hoc networks, enabling technologies, multiplexing, protocol design, network security, and quality of service. May be taught concurrently with CSC 667. Students cannot receive credit for both CSC 567 and CSC 667. 3(3-0) S

#### **CSC 587 Computing for Bioinformatics**

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 587 and CSC 687. 3(3-0) D

#### **CSC 590 Advanced Topics in Computer Science**

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. 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 590 and CSC 690. 1-4 D

**CSC 596 Special Readings**

Prerequisite: permission of department head. Periodic conferences with an advisor are required. May be repeated to a total of 6 hours. May be taught concurrently with CSC 696. Cannot receive credit for both CSC 696 and CSC 596. 1-3 F,S

**CSC 600 Hardware, Software, and Troubleshooting Personal Computers**

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. May be taught concurrently with CSC 500. Cannot receive credit for both CSC 500 and CSC 600. 3(2-2) D

**CSC 605 Web-Based Resources in Educational Settings**

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. May be taught concurrently with CSC 505. Cannot receive credit for both CSC 505 and CSC 605. 2(2-0) D

**CSC 610 Networking and Telecommunications in Educational Settings**

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. May be taught concurrently with CSC 510. Cannot receive credit for both CSC 510 and CSC 610. 2(2-0) D

**CSC 621 Compiler Construction**

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. May be taught concurrently with CSC 521. Cannot receive credit for both CSC 521 and CSC 621. 4(3-2) D

**CSC 625 Computer Graphics**

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 525. Cannot receive credit for both CSC 625 and CSC 525. 3(3-0), F

**CSC 626 Methods of Optimization**

Convex sets, classical optimization of functions, constrained optimization, search techniques, linear and nonlinear optimization, applications to applied problems. May be taught concurrently with CSC 526. Cannot receive credit for both CSC 526 and CSC 626. 3(3-0) D

**CSC 635 Data Mining**

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 535. Cannot receive credit for both CSC 635 and CSC 535. 3(3-0), D

**CSC 640 Artificial Intelligence**

Techniques of artificial intelligence, including study of expert systems, natural language processing, search strategies, computer vision and robotics. May be taught concurrently with CSC 540. Cannot receive credit for both CSC 640 and CSC 540. 3(3-0), S

**CSC 645 Computer Speech, Music and Images**

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 545. Cannot receive credit for both CSC 645 and CSC 545. 3(3-0), D

**CSC 665 Computer Networks**

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 565. Cannot receive credit for both CSC 665 and CSC 565. 3(3-0), F

**CSC 667 Wireless Networks**

An introduction to the fundamental theory, concepts and techniques of wireless communication, wireless networks, network architecture, and wireless applications. Students will gain an understanding of the significance that wireless systems and user mobility have on the construction and handling of a data or telecommunications network. Topics include wireless and ad hoc networks, enabling technologies, multiplexing, protocol design, network security, and quality of service. May be taught concurrently with CSC 567. Cannot receive credit for both CSC 667 and CSC 567. 3(3-0), S

**CSC 687 Computing for Bioinformatics**

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 587. Cannot receive credit for both CSC 687 and CSC 587. 3(3-0), D

**CSC 690 Advanced Topics in Computer Science**



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 590. Cannot receive credit for both CSC 690 and CSC 590. 1-4, D

**CSC 696 Special Readings**

Prerequisite: permission of department head. Periodic conferences with an advisor are required. May be repeated to a total of 6 hours. May be taught concurrently with CSC 596. Cannot receive credit for both CSC 596 and CSC 696. 1-3, F, S

**CSC 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**CSC 798 Research in Computer Science**

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. 1-4, F,S

**CSC 799 Thesis**

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. 1-6, D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Geography, Geology, and Planning

## Department of Geography, Geology, and Planning

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Department Head: Professor Thomas G. Plymate, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** John Catau, Ph.D.; William T. Corcoran, Ph.D.; Melida Gutierrez, Ph.D.; Dimitri Ioannides, Ph.D.; Rajinder S. Jutla, Ph.D.; Kevin Mickus, Ph.D.; Robert T. Pavlowsky, Ph.D.; Paul A. Rollinson, Ph.D.; Charles W. Rovey, Ph.D.

**Associate Professors:** Kevin R. Evans, Ph.D.; Douglas R. Gouzie, Ph.D.; Jun Luo, Ph.D.; Judith L. Meyer, Ph.D.; Xin Miao, Ph.D.

**Assistant Professors:** Alice Jill Black, Ph.D.; Mario Daoust, Ph.D.; Diane M. May, M.S.; Jacob Sowers, Ph.D.; Xiaomin Qiu, Ph.D.

**Senior Instructor:** Deborah Corcoran, M.S.

**Instructors:** Damon J. Bassett, M.S.; Linnea A. Iantria, M.S.

**Adjunct Professors:** Tom Aley, Ph.D.; George H. Davis, M.S.; Christopher Howell, Ph.D.; Garret Rowell, Ph.D.

**Emeritus Professors:** David A. Castillon, Ph.D.; William H. Cheek, 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.; Erwin J. Mantei, Ph.D.; James F. Miller, Ph.D.; Thomas D. Moeglin, Ph.D.; Milton D. Rafferty, Ph.D.

### Accreditation

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 by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Geospatial Sciences in Geography and Geology (Master of Science); Secondary Education with options in Earth Science and Geography (Master of Science in Education); Master of Natural and Applied Science with an emphasis in Geography, Geology, and Planning.

Refer to the [Graduate Catalog](#) for more information.

Courses are offered toward the Environmental Management option within the Master of Science degree in Administrative Studies. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Natural and Applied Science Degree

Eligible Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information

#### Accelerated Master of Science Degree in Geospatial Sciences in Geography and Geology

Eligible Missouri State University undergraduate majors in Geography, Geospatial Sciences, Geology, and Planning may apply for preliminary acceptance into the Master of Science in Geospatial Sciences after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). This option allows students with advanced course work in Geography, Geospatial Sciences, Geology, or Planning to complete a masters degree in three full semesters and one summer semester. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

### University Certificate (graduate)

A graduate level certificate program is available in Geospatial Information Sciences. See the Graduate Catalog for more information.

## General Information

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 Requirements - see **General Education Program and Requirements** 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(5) or GLG 110(4) or GRY 135(4) or PHY 100(4)
- B. Major Requirements
  - 1. Core (25 hours): GLG 110(4), 314(4), 318(3), 412(4); GRY 135(4), 348(3), 351(3)
  - 2. Major Electives (3 hours): Select 3 additional hours from any GLG course numbered 171 or above in consultation with advisor
  - 3. Related Requirements (10-13 hours): AST 115(4); MTH 138(5), or MTH 135(3) and 181(3) or MTH 261(5) or MTH 287(3); SCI 505(3)
  - 4. Complete one of the following options:
    - a. **Categorical Science** (13 hours): BIO 102(4); CHM 105(5); PHY 100(4)
    - b. **Unified Science** (25 hours): BIO 121(4), 122(4); CHM 160(4), 170(3), 175(2); PHY 123(4), 124(4)
- C. Professional Education Courses (37 hours): SCI 214(1), 314(3), 414(3), 493(6), 494(6) and see **Teacher Certification, Teacher Education Program and Secondary Education Requirements** section of catalog
- D. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree 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 Requirements - see **General Education Program and Requirements** section of catalog
- B. Major Requirements (35-36 hours)
  - 1. GRY 100(3), 142(4), 363(4), 367(3), 498(1)
  - 2. Complete one of the following: GRY 300(3), 305(3)
  - 3. Complete one of the following field-studies courses: GRY 301(3), 353(2), 470(2)
  - 4. Related requirement (3 hours): AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)
  - 5. Complete 12 additional hours with GRY, GEO, or PLN prefix.
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see **Degrees, Programs and Requirements** section of catalog
- E. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

### Geography (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see **General Education Program and Requirements** section of catalog
- B. Major Requirements (38-44 hours)
  - 1. Core Requirements (15 hours): GRY 100(3), GRY 142(4), 363(4), 367(3), 498(1)
  - 2. Related Requirement (3 hours): AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)
  - 3. Complete one of the following options:
    - a. **Cultural and Regional Geography** (20-21 hours)
      - 1. Complete one of the following: GRY 300(3), 305(3)
      - 2. Complete one of the following: GRY 320(3), 321(3), 322(3), 323(3)
      - 3. Complete one of the following field-studies courses: GRY 301(3), 353(2), 470(2)
      - 4. Complete 12 additional hours with GRY, GEO or PLN prefix
    - b. **Environmental and Natural Resources** (24-25 hours)
      - 1. GRY 135(4), 348(3), 351(3), 535(3); GEO 561(3)
      - 2. Complete one of the following: GRY 300(3), 305(3), 320(3), 321(3), 322(3), 323(3)

3. Complete one of the following field-studies courses: GRY 301(3), 353(2), 470(2); GLG 360(2)
4. Complete 3 additional hours with GRY, GEO, or PLN prefix
5. Recommended supplementary courses: CHM 105(5) or CHM 160(4); AGA 215(3); BIO 122(4); GRY 597(1-5). Students should select a minor in science, mathematics, agriculture, or an approved personalized minor.

c. **Geotourism** (26 hours)

1. GRY 308(3), 310(3), 328(3), 410(3), 470(2), 510(3); HRA 340(3)
2. Complete one of the following: GRY 318(3), 320(3); PLN 372(3)
3. Complete a minimum of 3 hours from the following: GLG 171(4); GRY 108(3), 301(3), 305(3), 321(3), 322(3), 323(3), 353(2), 399(1-3); PLN 100(3), 573(3), 574(3), 599(1-3)
4. Recommended supplementary courses: any additional courses in subsection 2 or 3, plus any of the following: AGP 121(2); ART 271(3); HRA 210(3), 428(3), 430(3); JRN 270(3); MKT 150(3); PHI 302(3); PLS 232(3); REC 152(3), 303(3); THE 101(3)

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Geology (Comprehensive)**

Bachelor of Science

This degree program is designed for those who wish to seek admission to graduate school in geology or related fields.

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (79-87 hours)

1. GLG 110(4) or both GLG 171(4) and GLG 172(1); GLG 314(4), 332(4), 333(4), 340(4), 358(3), 412(4), 413(6) or equivalent Field Geology course, 570(4)
2. GLG 415(4) or 580(3) or GRY 348(3)
3. GLG 572(3) or 573(3) or 590(3)
4. Select a minimum of 9 additional hours of GLG courses numbered 318 or higher, but not to include more than 4 hours of GLG 360
5. Related Requirements (27-33 hours): GRY 363(4); 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 [General Baccalaureate Degree Requirements](#) section of catalog

### **Geology (Non-Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (46-49 hours)

1. GLG 110(4) or both 171(4) and 172(1); GLG 314(4), 332(4), 333(4), 358(3)
2. GLG 340(4) or 570(4)
3. GLG 412(4) or 413(6) or equivalent field geology course
4. CHM 160(4)
5. GRY 363(4)
6. Complete 11 hours selected from:
  - a. CHM 170(3), 175(2)
  - b. GLG courses numbered 318 or higher, but not to include more than 4 hours of GLG 360
  - c. GRY 348(3)

C. Minor Required (or second major)

D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Geospatial Sciences (Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (65-68 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(2), 498(1); GEO 551(3), 561(3), 562(3), 566(3), 568(3), 572(3); CSC 121(3) or CSC 125(4) or CIS 260(3); MTH 181(3) or 138(5); MTH 340(3) or AGR 330(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)
2. Complete 12 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(3), 375(3), 377(3), 379(3), 507(3), 525(3); GEO 573(3), 575(3), 578(3); TCM 110(3), 313(3); MTH 261(5) or 287(3); MTH 280(5) or 288(3); CIS 230(3), 270(3), 321(3), 326(3), 528(3); CSC 131(3), 232(3), 335(3), 525(3).  
NOTE: Students who select a surveying emphasis must take GRY 375(3), 377(3), 379(3).

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### **Planning (Comprehensive)**

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements (69-70 hours)

1. PLN 100(3) or GRY 100(3) or GRY 108(3); PLN 271(3), 367(3), 372(3), 400(3), 570(3), 571(3), 576(4), 599(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), PSY 200(3), QBA 237(3), REC 328(3), SOC 302(3)
2. Complete one of the following options:
  - a. **Community and Regional Planning** (19 hours)
    1. PLN 572(4); PLS 351(3); SOC 305(3)
    2. Select an additional 9 hours from the following (at least 5 hours to be selected from GRY, GEO, or PLN courses): PLN 505(3), 573(3), 574(3), 596(1-3), 597(1-5), 599(1-3); FIN 266(3); GRY 301(3), 310(3), 320(3), 348(3), 351(3), 360(3), 410(3), 470(2), 510(3), 525(3), 545(3); GEO 551(3), 561(3), 566(3), 568(3); PLS 255(3), 354(3); ECO 450(3); HRA 340(3); HST 515(3)
  - b. **Tourism Planning and Development** (18 hours)
    1. GRY 310(3), 410(3), 510(3); HRA 340(3); PLN 574(3)
    2. Select an additional 3 hours from the following: PLN 505(3), 572(4), 573(3), 596(1-3), 597(1-5), 599(1-3); GRY 320(3), 328(3), 348(3), 351(3), 360(3), 470(2), 525(3), 545(3); GEO 551(3), 561(3), 566(3), 568(3); REC 152(3), 390(3), 422(3); HRA 410(3); ECO 540(3); HST 515(3)
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

## Minors

### Community and Regional Planning

Bachelor of Science

- A. PLN 271(3), 367(3), 372(3), 570(3), 571(3), 572(4)
- B. GRY 322(3)

### Geography

Bachelor of Arts  
Bachelor of Science  
Bachelor of Science in Education  
(Non-Certifiable)

- A. GRY 100(3), 142(4), 321(3), 351(3)
- B. Additional upper division electives in GRY, GEO, or PLN to total at least 18 hours.

### Geology

Bachelor of Arts

- A. GLG 110(4) or both GLG 171(4) and 172(1); GLG 314(4); four hours of GLG 360(1-3) or 412(4)
- B. Three additional hours of GLG courses numbered 318 or higher.

### Geology

Bachelor of Science

- A. GLG 110(4) or both GLG 171(4) and 172(1); GLG 314(4); four hours of GLG 360(1-3) or 412(4)
- B. Six additional hours of GLG courses numbered 318 or higher.

### Geospatial Sciences

Bachelor of Science

- A. GRY 142(4) or GLG 110(4); GRY 360(3), 363(4); GEO 551(3), 561(3)
- B. Complete three hours from GEO 562(3), 566(3), 568(3), 572(3), 573(3), 575(3), 578(3). Note: Students majoring in geography must complete nine hours of the following to avoid overlap with the major degree requirements: GEO 562(3), 566(3), 568(3), 572(3), 573(3), 575(3), 578(3).

### Geotourism

Bachelor of Arts  
Bachelor of Science

- A. GRY 100(3), 308(3), 310(3), 328(3), 410(3)
- B. HRA 340(3)

### Global Studies

Bachelor of Arts  
Bachelor of Science

- A. GRY 100(3); GRY 320(3) or 323(3); GRY 363(4) or 367(3)
- B. Nine additional hours in regional geography courses: GRY 305(3), 308(3), 316(3), 507(3). Note: GRY 305(3) is a variable content course that may be repeated with new content.

## University Certificate (undergraduate)

### Geographic Information Sciences

The certificate in Geographic Information Sciences provides an 16 hour undergraduate level program for students and professionals who desire credentials in this area.

**Admission Requirements:** at least a 2.50 Missouri State cumulative GPA and a minimum of 30 credit hours

**Program Requirements (16 hours)**

- A. GRY 360(3), 363(4); GEO 551(3), 561(3)
- B. Three additional hours from: GEO 562(3), 566(3), 568(3), 572(3), 573(3), 575(3), 578(3)
- C. 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.

**Program Requirements (13 hours)**

- A. PLN 571(3); PLN 572(4) or 576(4)
- B. Six additional hours from: PLN 372(3), 570(3), 573(3), 574(3), 597(3)

## Geography Courses

**GRY 100 World Regional Geography**

General Education Course (Culture and Society/Social Sciences Perspective). 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. 3(3-0) F,S

**GRY 108 Principles of Sustainability**

General Education Course (Culture and Society/Social Sciences Perspective). 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. 3(3-0) F,S

**GRY 135 Principles of Weather and Climate**

General Education Course (Natural World). 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. 4(3-2) F,S

**GRY 142 Introductory Physical Geography**

General Education Course (Natural World). 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. 4(3-2) F,S

**GRY 143 Physical Geography Laboratory**

Laboratory instruction in 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. This course is open only to transfer students who have already completed a 3-credit course equivalent to the lecture portion of GRY 142. 1(0-2) F, S

**GRY 197 Selected Topics in Geography I**

Prerequisite: permission. 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 semester class schedule to determine the topic title for any given semester. May be repeated to a total of 5 hours credit. Variable content course. 1-3 D

**GRY 240 Earth Science for Teachers**

Prerequisite: 30 hours; open only to Early Childhood, Elementary, and Middle School majors. 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. 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. 4(2-4) F,S

**GRY 275 Introduction to Plane Surveying**

Prerequisite: MTH 138 or MTH 181 or MTH 261 or MTH 287. Fundamental concepts and practices of land surveying. Practical exercises comparable to those used at Missouri University of Science and Technology. 3(2-3) F

**GRY 300 Geography of the United States**

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. 3(3-0) F

**GRY 301 Geography of the Ozarks**

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. Supplemental course fee. 3(2-2) D

**GRY 305 Selected World Regions**

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. 3(3-0) D

**GRY 308 Geography of World Tourism**

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. 3(3-0) F,S

**GRY 310 Fundamentals of Tourism**

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. Identical with REC 320. Cannot receive credit for both GRY 310 and REC 320. 3(3-0) F

**GRY 315 Service Learning in Geography**

Prerequisite: 30 hours and concurrent enrollment 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. 1 F,S

**GRY 316 Geography of Global Health and Disease**

An examination of global health and disease patterns from a geographic perspective. Part of the course focuses on disease and the impacts of globalization, economic development, land use, pollution, climate change, and cultural beliefs and practices. The rest of the course examines traditional and western health care systems and the distribution of health care resources. Topics include global pandemics, emerging diseases, health care accessibility, and disease mapping. 3(3-0) F

**GRY 318 Geography of the National Parks**

A survey of the U.S. National Park system and national and international protected areas. Topics include natural and cultural heritage, park management, and the role of interpretation in creating a unique sense of place. 3(3-0) S

**GRY 320 Cultural Geography**

Geographic exploration of material and nonmaterial elements of culture, focusing on spatial patterns, regional similarities, unique places, and the changing imprint on the natural landscape. Specific topics include settlement, agriculture, language, religion, foodways, music, sport, and their spatial interrelationships. Discussions and readings will encompass global, national, and local scales. 3(3-0) F

**GRY 321 Economic Geography**

Prerequisite: 30 hours. Location, distribution and extent of world economic activity. Topics include resource extraction, agriculture, manufacturing, retailing, and services. 3(3-0) S

**GRY 322 Urban Geography**

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. 3(3-0) F

**GRY 323 World Political Geography**

Survey of the field of political geography based on the concept of the State. Major topics include territoriality, the development and decline of the nation-state, frontiers and borderlands, colonialism, historical and contemporary geopolitics, and international environmental laws. Modern political issues dealing with ethnicity, sovereignty, ecology, and energy will be discussed from a geographic perspective. This is an upper-division geography course, and students are encouraged to have completed GRY 100 (World Regional Geography) prior to taking this course. 3(3-0) S

**GRY 328 Principles of Geotourism**

Prerequisite: GRY 100 and GRY 310. From landscapes, habitats and species to global events such as the Olympics, the ways in which humans interact, impact and explore the world leave indelible "footprints". The students will be introduced to some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. 3(3-0) S

**GRY 348 Geomorphology**

Prerequisite: GRY 142 or GLG 110 or both 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. 3(2-2) F

**GRY 351 Conservation of Natural Resources**

Prerequisite: 30 hours. An examination of the dynamic interplay between physical, economic, social, and political factors affecting the major natural resource issues facing the world today. A presentation 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. 3(3-0) F,S

**GRY 353 Geographic Field Studies**

Prerequisite: permission. Field methods in physical and cultural geography involving the collection and analysis of data. Fields trips required. Graded Pass/Not Pass only. Supplemental course fee. Variable content course; because destinations vary, the course may be repeated to a total of 4 hours. 2(0-4) D

**GRY 360 Interpretation of Aerial Photography**

Prerequisite: 30 hours. 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. 3(2-3) F

**GRY 363 Introduction to Geographic Information Science**

Prerequisite: 30 hours. Introduction to the foundations of geographic information systems (GIS), digital cartography, global positioning systems (GPS), and remote sensing used in academia, government agencies, and private industries. Topics include maps, data collection, data processing, and data analysis and display. 4(3-4) F,S

**GRY 367 Research Methods in Geography and Planning**

Prerequisite: MTH 340 or AGR 330 or PSY 200 or QBA 237 or REC 328 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. Identical with PLN 367. Cannot receive credit for both GRY 367 and PLN 367. 3(3-0) F,S

**GRY 375 Advanced Plane Surveying**

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. 3(1-4) D

**GRY 377 Legal Aspects of Boundary Surveying**

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. 3(3-0) D

**GRY 379 Surveying Computations**

Prerequisite: GRY 375. Computations in horizontal control networks, projections including Universal Transverse Mercator and State Plane Coordinates, Practical Astronomy, and Global Positioning Systems. 3(3-0) D

**GRY 397 Selected Topics in Geography II**

Prerequisite: permission. 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 credit and topics vary, this course may be repeated, with permission, to a total of 5 hours credit. Variable content course. 1-3 D

**GRY 399 Internship in Geography**

Prerequisite: permission. 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. 1-3 F,S

**GRY 410 The Geotourism Industry**

Prerequisite: GRY 328. This course includes the asset theory of tourism, cost-benefit analysis, tax policy impacts, and other economic and statistical aspects of tourism, approached from the elements in the Geotourism perspective. The course will examine research designed to determine economic impacts of the Geotourism industry, and study 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. 3(3-0) F

**GRY 470 International Field Study in Geography**

Prerequisite: permission. Focuses on a geography issue or issues affecting an international geographic location. Travel to field location outside the United States is required. In order to apply geographic theory to practical settings the collection and analysis of field data is required. Graded Pass/Not Pass only. Supplemental course fee administered through Study Away Program. Variable content course; because destinations vary, the course may be repeated to a total of 4 hours. 2(0-4) D

**GRY 495 Undergraduate Research in Geography**

Prerequisite: permission. Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated for a total of 6 credit hours. 1-3 D

**GRY 496 Readings in Geography**

Prerequisite: permission. Selected readings and reports on geographical literature. May be repeated to a total of 4 hours. 2(1-2) F,S

**GRY 497 Special Topics in Geography**

Prerequisite: permission. 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. 1-3 F,S

**GRY 498 Placement Seminar in Geography, Geospatial Sciences and Planning**

Prerequisite: 90 hours. Readings and discussion of current trends in geography, geospatial sciences, and planning with consideration given to future employment. A senior assessment evaluation is included in this course. 1(1-0) S

**GRY 507 Geography of Sub-Saharan Africa**

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 are required to complete one research project. May be taught concurrently with GRY 607. Cannot receive credit for both GRY 607 and GRY 507. 3(3-0) D

#### **GRY 510 Applications in Sustainable Geotourism**

Prerequisite: GRY 410. This course will explore environmentally and socially responsible tourism strategies and innovations, and provide tools needed by private and public tourism entities to work together. The principles of Geotourism will be applied in a practicum to a local, regional or national community. Students will work as a team and individually to develop a tourism policy and plan based on Geotourism parameters. May be taught concurrently with GRY 610. Cannot receive credit for both GRY 510 and GRY 610. 3(3-0) S

#### **GRY 525 Environmental Hazards**

Prerequisite: GRY 142 or both GRY 135 and GLG 110. Identification, recognition, and impact of hazards. Physical exposure to hazards and human vulnerability in LDCs and MDCs. Disaster trends and patterns. Behavioral and structural paradigms of hazards. EM-DAT: international disaster database. Statistical methods used in risk assessments. Risk perception, communication, and disaster management. Tectonic, mass movement, atmospheric, hydrological, biophysical, and technological hazards: analysis, preparedness, and mitigation. May be taught concurrently with GRY 625. Cannot receive credit for both GRY 625 and GRY 525. 3(3-0) S

#### **GRY 535 Global Climate and Weather Cycles**

Prerequisite: GRY 135; and MTH 340 or AGR 330 or PSY 200 or QBA 237 or REC 328. Energy and mass exchanges. Global atmospheric circulation; surface and upper-air flows. Index cycle: zonal and meridional atmospheric circulations. Teleconnections and atmospheric oscillations: NAO, PNA, PDO, AO, ENSO, and AMO. Interactions between atmospheric oscillations and surface climatic variables in the United States and around the world. Weather cycles, natural climatic variability and climate change. Drought indices. Spatial and temporal statistical domains used in climatic data analysis. May be taught concurrently with GRY 635. Cannot receive credit for both GRY 635 and GRY 535. 3(3-0) D

#### **GRY 545 Global Environmental Change**

Energy and mass fluxes and storages in the interlinked physical components of the ecosystem. Chemistry of the global atmosphere. Role of the oceans and thermohaline circulation. Land use and land cover influences on terrestrial ecosystems. Concepts of environmental cycles, thresholds, resilience, recovery and response times. Understanding past environmental changes. Causes, mechanisms and likely impacts of natural and anthropogenically-induced changes on the global environment. Predictive models on global environmental change. May be taught concurrently with GRY 645. Cannot receive credit for both GRY 545 and GRY 645. 3(2-2) D

#### **GRY 550 Fluvial Geomorphology**

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. May be taught concurrently with GRY 650. Cannot receive credit for both GRY 550 and GRY 650. 3(3-0) S

#### **GRY 596 Topical Issues in Education**

Prerequisite: permission. 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. May be taught concurrently with GRY 696. Cannot receive credit for both GRY 696 and GRY 596. 1-5 D

#### **GRY 597 Special Topics in Geography**

Prerequisite: permission. 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. May be taught concurrently with GRY 697. Cannot receive credit for both GRY 697 and GRY 597. 1-5 D

#### **GRY 599 Research in Geography**

Prerequisite: permission. Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated for a total of 6 credit hours. May be taught concurrently with GRY 698. Cannot receive credit for both GRY 698 and GRY 599. 1-3 F,S

#### **GRY 607 Geography of Sub-Saharan Africa**

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 are required to complete two research projects. May be taught concurrently with GRY 507. Cannot receive credit for both GRY 507 and GRY 607. 3(3-0), D

#### **GRY 610 Applications in Sustainable Geotourism**

Recommended Prerequisite: GRY 410. This course will explore environmentally and socially responsible tourism strategies and innovations, and provide tools needed by private and public tourism entities to work together. The principles of Geotourism will be applied in a practicum to a local, regional or national community. Students will work as a team and individually to develop a tourism policy and plan based on Geotourism parameters. May be taught concurrently with GRY 510. Cannot receive credit for both GRY 610 and GRY 510. 3(3-0) S

#### **GRY 625 Environmental Hazards**

Recommended Prerequisite: GRY 142; or both GRY 135 and GLG 110. Identification, recognition, and impact of hazards. Physical exposure to hazards and human vulnerability in LDCs and MDCs. Disaster trends and patterns. Behavioral and structural paradigms of hazards. EM-DAT: international disaster database. Statistical methods used in risk assessments. Risk perception, communication, and disaster management. Tectonic, mass movement, atmospheric, hydrological, biophysical, and technological hazards: analysis, preparedness, and mitigation. May be taught concurrently with GRY 525. Cannot receive credit for both GRY 525 and GRY 625. 3(3-0), S

**GRY 635 Global Climate and Weather Cycles**

Recommended Prerequisite: GRY 135; and MTH 340 or AGR 330 or ECO 308 or PSY 200 or QBA 237 or REC 328 or SOC 302. Energy and mass exchanges. Global atmospheric circulation; surface and upper-air flows. Index cycle: zonal and meridional atmospheric circulations. Teleconnections and atmospheric oscillations: NAO, PNA, PDO, AO, ENSO, and AMO. Interactions between atmospheric oscillations and surface climatic variables in the United States and around the world. Weather cycles, natural climatic variability and climate change. Drought indices. Spatial and temporal statistical domains used in climatic data analysis. May be taught concurrently with GRY 535. Cannot receive credit for both GRY 535 and GRY 635. 3(3-0), D

**GRY 645 Global Environmental Change**

Recommended Prerequisite: GRY 142 or both GRY 135 and GLG 110. Energy and mass fluxes and storages in the interlinked physical components of the ecosphere. Chemistry of the global atmosphere. Role of the oceans and thermohaline circulation. Land use and land cover influences on terrestrial ecosystems. Concepts of environmental cycles, thresholds, resilience, recovery and response times. Understanding past environmental changes. Causes, mechanisms and likely impacts of natural and anthropogenically-induced changes on the global environment. Predictive models on global environmental change. May be taught concurrently with GRY 545. Cannot receive credit for both GRY 545 and GRY 645. 3(2-2), D

**GRY 650 Fluvial Geomorphology**

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. May be taught concurrently with GRY 550. Cannot receive credit for both GRY 550 and GRY 650. 3(3-0), S

**GRY 696 Topical Issues in Education**

Prerequisite: permission. 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. Variable content course. May be repeated to a total of 5 hours credit. May be taught concurrently with GRY 596. Cannot receive credit for both GRY 596 and GRY 696. 1-5, D

**GRY 697 Special Topics in Geography**

Prerequisite: permission. 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. Variable content course. May be repeated to a maximum of 6 hours credit. May be taught concurrently with GRY 597. Cannot receive credit for both GRY 597 and GRY 697. 1-5, D

**GRY 698 Research in Geography**

Prerequisite: permission. Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated for a total of 6 credit hours. 1-3, F,S

**GRY 700 Cultural Geography for Secondary Teachers I**

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. 3(2-2), D

**GRY 703 Cultural Geography for Secondary Teachers II**

Prerequisite: GRY 700. Continuation of GRY 700. 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. 3(2-2), D

**GRY 730 Weather Elements for Secondary Teachers**

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. 3(3-0), D

**GRY 731 Environmental Assessment**

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. 3(2-2), S

**GRY 740 Selected Topics in Earth Science**

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. Variable content course. Since topics vary, the course may be repeated for a total of 6 hours. Identical with GLG 765. Cannot receive credit for more than 6 hours of GRY 740 and GLG 765. 1-3, D

**GRY 748 Physiography and Resource Conservation**

Landforms, economic minerals, soils, climate, water resources and closely related aspects of the natural environment as they relate to man's habitation and use of the earth; map reading and simple map construction; methods and materials for secondary schools. 3(2-2), D

**GRY 751 Topics in Advanced Physical Geography**

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 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. 3(3-0), D

**GRY 779 Research in Geography**

Prerequisite: permission. Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated for a total of 3 credit hours. 1-3, D

**GRY 799 Thesis**

Prerequisite: permission. Independent research and study connected with preparation of thesis. 1-6, F,S

## Geology Courses

**GLG 110 Principles of Geology**

General Education Course (Natural World). 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. 4(3-2) F,S

**GLG 115 Life of the Past**

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. 4(3-2) D

**GLG 171 Environmental Geology**

General Education Course (Natural World). 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. 4(4-0) F,S

**GLG 172 Physical Geology Laboratory**

Prerequisite: 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. 1(0-2) F,S

**GLG 197 Popular Topics in Geology**

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 content course. 1-3 D

**GLG 314 Historical Geology**

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. 4(3-3) F

**GLG 318 Physical Oceanography**

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. 3(3-0) S

**GLG 326 Marine Science I: Oceanography**

Prerequisite: MTH 135 and CHM 160 and CHM 170 and CHM 171 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). 3(3-0) Su

**GLG 327 Marine Science I: Oceanography Lab**

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). 2(0-4) Su

**GLG 330 Service Learning in Geology**

Prerequisite: 30 hours and permission 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. May be repeated. Graded Pass/Not Pass only. 1 F,S

**GLG 332 Mineralogy**

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. 4(2-4) F

**GLG 333 Petrology**

Prerequisite: 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. 4(2-4) S

**GLG 340 Structural Geology**

Prerequisite: GLG 314 and GLG 333; and either MTH 138 or MTH 181. Recommended Prerequisite: PHY 123 or PHY 203. 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. 4(3-2) F

**GLG 350 Speleology**

Prerequisite: GLG 110 or GLG 171. Caves, karst and cavernous terrain, their origin, geologic environment and evolution. Field trips and field research required. 3(2-2) F

**GLG 358 Writing II: Reporting Geological Information**

Prerequisite: ENG 110 and 30 hours and GLG 314; and either GLG 318 or GLG 332. General Education Course (Basic Required Courses). 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. 3(1-4) F

**GLG 360 Directed Field Trips**

Prerequisite: GLG 110 or both GLG 171 and GLG 172, and permission. Geologic field trips to areas of special interest. Because credit hours and destinations vary, the course may be repeated to a total of 8 hours. However, no more than 4 hours may count toward any Geology major. Graded Pass/Not Pass only. Variable content course. Supplemental course fee. 1-3 D

**GLG 397 Selected Topics in Geology**

Prerequisite: permission. Course devoted to a single topic which may vary from semester to semester depending upon student and faculty interest. Since credit and topics vary, this course may be repeated, with permission, to a total of 5 hours credit. Variable content course. 1-3 D

**GLG 399 Internship in Geology**

Prerequisite: permission. 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. 1-3 F,S

**GLG 412 Field Geology of the Midcontinent Region**

Prerequisite: GLG 314 and permission. Regional geology of the Midcontinent including the Ozark, Wichita, Arbuckle, Ouachita and Boston Mountains, and associated basins. Introduction to geologic field methods including the use of aerial photograph and geologic maps, cross-sections, and block diagrams in the interpretation of regional geologic history. Supplemental course fee. 4(2-4) S

**GLG 413 Field Geology**

Prerequisite: GLG 314; 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. 6 Su

**GLG 415 Invertebrate Paleontology**

Prerequisite: GLG 314. Morphology and taxonomy of invertebrate fossils. 4(2-4) S

**GLG 498 Seminar in Geology**

Prerequisite: permission. Lectures and discussions of topics in geology. May be repeated for 4 hours. 2(2-0) D

**GLG 499 Research in Geology**

Prerequisite: permission. 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. 1-3 F,S

**GLG 523 Coastal Marine Geology**

Prerequisite: 6 hours of geology; and concurrent enrollment in GLG 524. 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. May be taught concurrently with GLG 623. Cannot receive credit for both GLG 623 and GLG 523. 2(2-0) Su

**GLG 524 Coastal Marine Geology Lab**

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. May be taught concurrently with GLG 624. Cannot receive credit for both GLG 624 and GLG 524. 1(0-2) Su

**GLG 530 Optical Mineralogy**

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. May be taught concurrently with GLG 630. Cannot receive credit for both GLG 630 and GLG 530. 3(1-4) D

**GLG 540 X-Ray Mineralogy**

Prerequisite: GLG 332. 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. May be taught concurrently with GLG 640. Cannot receive credit for both GLG 640 and GLG 540. 3(1-4) D

**GLG 570 Principles of Stratigraphy**

Prerequisite: GLG 314. Recommended Prerequisite: 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. May be taught concurrently with GLG 670. Cannot receive credit for both GLG 670 and GLG 570. 4(3-2) F

**GLG 572 Geohydrology**

Prerequisite: GLG 314; and either MTH 261 or MTH 287. 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 572 and GLG 672. 3(2-2) S

**GLG 573 Engineering Geology**

Prerequisite: GLG 333 and either MTH 261 or MTH 287. Engineering properties of rocks and soils; fundamentals of engineering geology field investigations; application of properties and fundamentals to engineering problems concerning slope stability, groundwater, industrial contamination, urban public works, and karst areas. Laboratories include engineering classification of soils, hydraulic conductivity testing, and public works design and management. Field trip to observe engineering problems of karst required. May be taught concurrently with GLG 673. Cannot receive credit for both GLG 573 and GLG 673. 3(2-2) SE

**GLG 580 Geochemistry**

Prerequisite: GLG 332. 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 580 and GLG 680. 3(2-2) F

**GLG 581 Geochemical Techniques**

Prerequisite: GLG 332. 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. May be taught concurrently with GLG 681. Cannot receive credit for both GLG 681 and GLG 581. 4(2-4) SO

**GLG 590 Applied Geophysics**

Prerequisite: either PHY 124 or PHY 204; and either MTH 280 or MTH 288. Recommended Prerequisite: GLG 340. 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. May be taught concurrently with GLG 690. Cannot receive credit for both GLG 690 and GLG 590. 3(2-2) S

**GLG 594 Global Tectonics**

Prerequisite: GLG 314. The fundamental basis of plate tectonics. Topics covered include geophysical methods, plate motion theory, fundamental properties of plate boundaries, formation of sedimentary basins and orogenic belts. 3(3-0) S

**GLG 597 Selected Topics in Geology**

Prerequisite: permission. 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. May be taught concurrently with GLG 697. Cannot receive credit for both GLG 697 and GLG 597. 1-5 D

**GLG 623 Coastal Marine Geology**

Prerequisite: permission; and concurrent enrollment in GLG 624. A study of inshore and nearshore geologic processes, sedimentation patterns and landform development. Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with GLG 523. Cannot receive credit for both GLG 523 and GLG 623. 2(2-0), Su

**GLG 624 Coastal Marine Geology Lab**

Prerequisite: concurrent enrollment in GLG 623. Laboratory portion of GLG 623. Field and laboratory activities. Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with GLG 524. Cannot receive credit for both GLG 524 and GLG 624. 1(0-2), Su

**GLG 630 Optical Mineralogy**

Recommended 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. May be taught concurrently with GLG 530. Cannot receive credit for both GLG 530 and GLG 630. 3(1-4), D

**GLG 640 X-Ray Mineralogy**

Recommended Prerequisite: GLG 332. 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. May be taught concurrently with GLG 540. Cannot receive credit for both GLG 540 and GLG 640. 3(1-4), D

**GLG 670 Principles of Stratigraphy**

Recommended 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. May be taught concurrently with GLG 570. Cannot receive credit for both GLG 570 and GLG 670. 4(3-2), F

**GLG 672 Geohydrology**

Recommended Prerequisite: GLG 314; and either MTH 261 or MTH 287. 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 572. Cannot receive credit for both GLG 572 and GLG 672. 3(2-2), S

**GLG 673 Engineering Geology**

Recommended Prerequisite: GLG 333. Engineering properties of rocks and soils; fundamentals of engineering geology field investigations; application of properties and fundamentals to engineering problems concerning slope stability, groundwater, industrial contamination, urban public works, and karst areas. Laboratories include engineering classification of soils, hydraulic conductivity testing, and public works design and management. Field trip to observe engineering problems of karst required. May be taught concurrently with GLG 573. Cannot receive credit for both GLG 673 and GLG 573. 3(2-2), SE

**GLG 680 Geochemistry**

Recommended Prerequisite: GLG 332. 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 580. Cannot receive credit for both GLG 580 and GLG 680. 3(2-2), F

**GLG 681 Geochemical Techniques**

Recommended Prerequisite: GLG 332. 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. May be taught concurrently with GLG 581. Cannot receive credit for both GLG 581 and GLG 681. 4(2-4), SO

**GLG 690 Applied Geophysics**

Recommended Prerequisite: GLG 340; and either PHY 124 or PHY 204; and either MTH 280 or MTH 288. 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. May be taught concurrently with GLG 590. Cannot receive credit for both GLG 590 and GLG 690. 3(2-2), S

**GLG 697 Selected Topics in Geology**

Prerequisite: permission. Detailed treatment of various advanced topics in geology which may vary from year to year. Some typical topics: geologic instrumentation, selenology, sedimentology, and crystallography. Variable content course. May be repeated for a total of 6 hours. May be taught concurrently with GLG 597. Cannot receive credit for both GLG 597 and GLG 697. 1-5, D

**GLG 701 Geology for Secondary Teachers I**

Prerequisite: permission. Earth materials, geological processes, geological history and the geological environments. 3(2-2), D

**GLG 702 Geology for Secondary Teachers II**

Prerequisite: GLG 701. Continuation of GLG 701. 3(2-2), D

**GLG 713 Field Geology for Secondary Teachers**

Prerequisite: permission. 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. May be repeated to a total of 6 hours when destination varies. Supplemental course fee. 1-3, D

**GLG 751 Seminar in Geology**

Prerequisite: permission. Preparation of an extensive paper on selected topics to be read before staff seminars. 2(2-0), D

**GLG 765 Selected Topics in Earth Science**

Prerequisite: permission. 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. Variable content course. Since topics vary, the course may be repeated for a total of 6 hours. Identical to GRY 740. Cannot receive credit for more than 6 hours of GLG 755 and GRY 740 combined. 1-3 D

**GLG 779 Research/Geological Sciences**

Prerequisite: permission. Original research supervised by the geology staff, involving special areas of the geological sciences. May be repeated to a total of 3 hours. 1-3, D

**GLG 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**GLG 799 Thesis**

Prerequisite: permission. Independent research and study connected with preparation of thesis. 1-6, D

## Geospatial Sciences Courses

**GEO 551 Remote Sensing**

Prerequisite: GRY 360. Introduction to environmental studies through the application of remotely sensed imagery and geospatial technologies. The course covers principles of remote sensing, interactions of electromagnetic energy with the atmosphere and earth's surface, 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. May be taught concurrently with GEO 651. Cannot receive credit for both GEO 651 and GEO 551. 3(2-2) S

**GEO 561 Intermediate Geographic Information Science**

Prerequisite: GRY 363. Principles and applications of Geographic Information Systems (GIS) software. Examines the nature and accuracy of spatially referenced data, as well as methods of data capture, storage, retrieval, visualization and output. May be taught concurrently with GEO 661. Cannot receive credit for both GEO 661 and GEO 561. 3(2-2) S

**GEO 562 Internet Geospatial Science**

Prerequisite: GEO 561. Basic understanding of the contemporary standards for using the Internet to distribute and utilize geospatial data. Students will develop and implement both single or multiple source geospatial portals. A major part of the course will examine user interaction design for geospatial data in both a wired and wireless environment. May be taught concurrently with GEO 662. Cannot receive credit for both GEO 662 and GEO 562. 3(2-2) F

**GEO 566 Advanced Geographic Information Science**



Prerequisite: GEO 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. May be taught concurrently with GEO 666. Cannot receive credit for both GEO 666 and GEO 566. 3(2-2) F

#### **GEO 568 Thematic Cartography**

Prerequisite: GEO 561. Theoretical and applied aspects of map design in thematic mapping, animated mapping, interactive and web mapping. Emphasis will be applying computer-assisted mapping techniques of the problems of effective and efficient communication of spatial data. Field trip is required. May be taught concurrently with GEO 668. Cannot receive credit for both GEO 568 and GEO 668. 3(2-2) F

#### **GEO 572 Introduction to Photogrammetry and LiDAR Technology**

Recommended Prerequisite: GRY 360. Course covers basic concepts of photogrammetry and LiDAR techniques such as stereo feature extraction, orthophoto, LiDAR point cloud visualization and DEM/DTM generation. Laboratory emphasizes geospatial stereo feature extraction using digital photogrammetry software, ArcGIS and Matlab toolboxes. May be taught concurrently with GEO 572. Cannot receive credit for both GEO 572 and GEO 672. 3(1-4), S

#### **GEO 573 Geographic Information Science Programming**

Prerequisite: GEO 561; and either CIS 202 or CSC 121 or CSC 125. 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. May be taught concurrently with GEO 673. Cannot receive credit for both GEO 673 and GEO 573. 3(2-2) F

#### **GEO 575 GPS Surveying and Mapping**

Prerequisite: 30 hours. Theory and operation of global positioning systems (GPS) hardware and software. Including mission planning, measurement of point, line and area features, differential correction techniques and waypoint navigation. Field exercises required. May be taught concurrently with GEO 675. Cannot receive credit for both GEO 675 and GEO 575. 3(1-4) S

#### **GEO 578 Remote Sensing Digital Image Processing**

Prerequisite: GEO 551 or GEO 566 or GEO 572. Advanced application of remote sensing digital image processing in areas of interest such as land use/land cover mapping, agriculture, forestry, resource planning and geology. Course covers image visualization, image correction, classification algorithms and change detection methods. Laboratory emphasizes advanced image processing techniques using ENVI software. May be taught concurrently with GEO 678. Cannot receive credit for both GEO 678 and GEO 578. 3(2-2) F

#### **GEO 651 Remote Sensing**

Recommended Prerequisite: GRY 360. Introduction to environmental studies through the application of remotely sensed imagery and geospatial technologies. The course covers principles of remote sensing, interactions of electromagnetic energy with the atmosphere and earth's surface, 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. May be taught concurrently with GEO 551. Cannot receive credit for both GEO 551 and GEO 651. 3(2-2), S

#### **GEO 661 Intermediate Geographic Information Science**

Recommended Prerequisite: GRY 363. Principles and applications of Geographic Information Systems (GIS) software. Examines the nature and accuracy of spatially referenced data, as well as methods of data capture, storage, retrieval, visualization and output. May be taught concurrently with GEO 561. Cannot receive credit for both GEO 561 and GEO 661. 3(2-2), S

#### **GEO 662 Internet Geospatial Science**

Recommended Prerequisite: GEO 561 or GEO 661. Basic understanding of the contemporary standards for using the Internet to distribute and utilize geospatial data. Students will develop and implement both single or multiple source geospatial portals. A major part of the course will examine user interaction design for geospatial data in both a wired and wireless environment. May be taught concurrently with GEO 562. Cannot receive credit for both GEO 562 and GEO 662. 3(2-2), F

#### **GEO 666 Advanced Geographic Information Science**

Recommended Prerequisite: GEO 561 or GEO 661. 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. May be taught concurrently with GEO 566. Cannot receive credit for both GEO 566 and GEO 666. 3(2-2), F

#### **GEO 668 Thematic Cartography**

Recommended Prerequisite: GEO 561 or GEO 661. Theoretical and applied aspects of map design in thematic mapping, animated mapping, interactive and web mapping. Emphasis will be applying computer-assisted mapping techniques of the problems of effective and efficient communication of spatial data. Field trip is required. May be taught concurrently with GEO 568. Cannot receive credit for both GEO 668 and GEO 568. 3(2-2), F

#### **GEO 672 Introduction to Photogrammetry and LiDAR Technology**

Recommended Prerequisite: GRY 360. Course covers basic concepts of photogrammetry and LiDAR techniques such as stereo feature extraction, orthophoto, LiDAR point cloud visualization and DEM/DTM generation. Laboratory emphasizes geospatial stereo feature extraction using digital photogrammetry software, ArcGIS and Matlab toolboxes. May be taught concurrently with GEO 572. Cannot receive credit for both GEO 572 and GEO 672. 3(1-4), S

#### **GEO 673 Geographic Information Science Programming**

Recommended Prerequisite: GEO 561 or GEO 661, and either CIS 202 or CSC 121 or CSC 125. 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. May be taught concurrently with GEO

573. Cannot receive credit for both GEO 573 and GEO 673. 3(2-2), F

**GEO 675 GPS Surveying and Mapping**

Theory and operation of global positioning systems (GPS) hardware and software. Including mission planning, measurement of point, line and area features, differential correction techniques and waypoint navigation. Field exercises required. May be taught concurrently with GEO 575. Cannot receive credit for both GEO 575 and GEO 675. 3(1-4), S

**GEO 678 Remote Sensing Digital Image Processing**

Prerequisite: GEO 551 or GEO 651 or GEO 566 or GEO 666 or GEO 572 or GEO 672. Advanced application of remote sensing digital image processing in areas of interest such as land use/land cover mapping, agriculture, forestry, resource planning and geology. Course covers image visualization, image correction, classification algorithms and change detection methods. Laboratory emphasizes advanced image processing techniques using ENVI software. May be taught concurrently with GEO 578. Cannot receive credit for both GEO 578 and GEO 678. 3(2-2), F

**GEO 700 Introduction to Graduate Study in Geospatial Science**

Orientation to graduate study in geospatial sciences and development of a research proposal. 3(3-0), F

**GEO 701 Research Methods in Geospatial Science**

Prerequisite: GEO 700. Methods of collecting, organization, and analyzing data pertinent to graduate study in Geospatial Science. Emphasis will be on the application of univariate and multivariate statistical techniques and other quantitative techniques pertinent to mathematically and statistically modeling geospatial problems. 3(2-2), S

**GEO 755 Applications of Digital Cartography, Analytical Photogrammetry, and Remote Sensing**

Prerequisite: permission. 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. 1-3, D

**GEO 770 Advanced Field and Laboratory Methods**

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. 3(1-4), D

**GEO 780 Research Paper in Geospatial Sciences**

Prerequisite: permission. Extensive research paper on selected topic to be presented orally at a departmental seminar or professional meeting. Exclusively used to satisfy requirements for non-thesis option. 3, D

## Planning Courses

**PLN 100 Understanding Cities**

General Education Course (Culture and Society/Social Sciences Perspective). 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. 3(3-0) F,S

**PLN 271 General City and Regional Planning**

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. 3(3-0) F

**PLN 367 Research Methods in Geography and Planning**

Prerequisite: MTH 340 or AGR 330 or PSY 200 or QBA 237 or REC 328 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. Identical with GRY 367. Cannot receive credit for both PLN 367 and GRY 367. 3(3-0) F,S

**PLN 372 Community Development**

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. Field trip required. 3(3-0) S

**PLN 397 Selected Topics in Planning**

Course devoted to a single topic which may vary from semester to semester depending upon student and faculty interest. Since credit and topics vary, this course may be repeated, with permission, to a total of 5 hours credit. Variable content course. 1-3 D

**PLN 400 Communication Techniques in Planning**

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. 3(3-0) S

**PLN 505 Social Planning**

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 505 and PLN 605. 3(3-0) S

**PLN 570 Planning Law**

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 570 and PLN 670. 3(3-0) S

**PLN 571 Land Use Planning**

Prerequisite: PLN 271 or PLN 372 or FIN 266. 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 571 and PLN 671. 3(3-0) F

**PLN 572 Community Planning Practicum**

Prerequisite: PLN 571. 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 572 and PLN 672. 4(3-2) S

**PLN 573 Urban Design and Preservation**

Prerequisite: PLN 271 and GRY 322. Elements of urban design and preservation in relation to social, economic, and political forces; the role of the urban designer in the planning process. May be taught concurrently with PLN 673. Cannot receive credit for both PLN 673 and PLN 573. 3(3-0) S

**PLN 574 Open Space Planning**

Principles and methods of open space planning. Students will learn about the relationship between open space and the quality of life in cities and will obtain a foundation for conducting open space planning projects. Class format includes lecture, seminar and studio. Field problem required. May be taught concurrently with PLN 574. Cannot receive credit for both PLN 574 and PLN 674. 3(2-2), S

**PLN 576 Site Planning Studio**

Prerequisite: PLN 271 and PLN 372. 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. May be taught concurrently with PLN 676. Cannot receive credit for both PLN 676 and PLN 576. 4(2-4) F

**PLN 596 Research in Planning**

Prerequisite: permission. Enrichment through guided but independent, original research in planning and planning related subject areas. May be repeated to a total of 6 hours. May be taught concurrently with PLN 696. Cannot receive credit for both PLN 696 and PLN 596. 1-3 F,S

**PLN 597 Selected Topics in Planning**

Detailed treatment of various advanced 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. May be taught concurrently with PLN 697. Cannot receive credit for both PLN 697 and PLN 597. 1-5 D

**PLN 599 Internship in Urban and Regional Planning**

Prerequisite: 90 hours and PLN 571. 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. May be taught concurrently with PLN 699. Cannot receive credit for both PLN 699 and PLN 599. 1-3 F,S

**PLN 605 Social Planning**

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 505. Cannot receive credit for both PLN 505 and PLN 605. 3(3-0), S

**PLN 670 Planning Law**

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 570. Cannot receive credit for both PLN 570 and PLN 670. 3(3-0), S

**PLN 671 Land Use Planning**

Recommended Prerequisite: PLN 271 or PLN 372 or FIN 266. 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 571. Cannot receive credit for both PLN 571 and PLN 671. 3(3-0), F

**PLN 672 Community Planning Practicum**

Prerequisite: PLN 571 or PLN 671. 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 572. Cannot receive credit for both PLN 572 and PLN 672. 4(3-2), S

**PLN 673 Urban Design and Preservation**

Recommended Prerequisite: PLN 271 and GRY 322. Elements of urban design and preservation in relation to social, economic, and political forces; the role of the urban designer in the planning process. May be taught concurrently with PLN 573. Cannot receive credit for both PLN 573 and PLN 673. 3(3-0), S

**PLN 674 Open Space Planning**

Principles and methods of open space planning. Students will learn about the relationship between open space and the quality of life in cities and will obtain a foundation for conducting open space planning projects. Class format includes lecture, seminar and studio. Field problem required. May be taught concurrently with PLN 574. Cannot receive credit for both PLN 574 and PLN 674. 3(2-2), S

**PLN 676 Site Planning Studio**

Recommended Prerequisite: PLN 271 and PLN 372. 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. May be taught concurrently with PLN 576. Cannot receive credit for both PLN 576 and PLN 676. 4(2-4), F

**PLN 696 Research in Planning**

Prerequisite: permission. Enrichment through guided but independent, original research in planning and planning related subject areas. May be repeated to a total of 6 credit hours. May be taught concurrently with PLN 596. Cannot receive credit for both PLN 596 and PLN 696. 1-3, F,S

**PLN 697 Selected Topics in Planning**

Detailed treatment of various advanced topics in planning which may vary from semester to semester. Some typical topics: Economic Development Planning, Rural and Small Town Planning, Housing in America. Variable content course. May be repeated to a total of 6 hours. May be taught concurrently with PLN 597. Cannot receive credit for both PLN 597 and PLN 697. 1-5, D.

**PLN 699 Internship in Urban and Regional Planning**

Recommended Prerequisite: PLN 571. 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. May be taught concurrently with PLN 599. Cannot receive credit for both PLN 599 and PLN 699. 1-3, F,S

**PLN 704 Community Resource Planning**

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. 1-3, D

Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Hospitality and Restaurant Administration

## Department of Hospitality and Restaurant Administration

Professional Building, Room 440, Phone: (417) 836-4409, Fax: (417) 836-7673  
Email: [hra@missouristate.edu](mailto:hra@missouristate.edu)  
Website: <http://www.Missouristate.edu/hra>  
Department Head: Professor Melissa B. Dallas, J.D.

### Faculty (as of June 3, 2010)

**Professor:** Carl D. Riegel, Ed.D.

**Associate Professor:** Daniel Crafts, Ed.D.

**Assistant Professors:** Melanie Grand, M.S.Ed.; Stephanie G. Hein, Ed.D.

**Senior Instructor:** Abigale S. Ehlers, M.S.Ed.

**Emeritus Professors:** Henry C. Huitt, M.S.Ed.; Loanna Thompson, Ph.D.

### Accreditation

Accreditation Commission for Programs in Hospitality Administration (ACPHA) – Hospitality and Restaurant Administration, (B.S.)

### Mission Statement

The Hospitality and Restaurant Administration Department at Missouri State University is committed to creating an environment of academic excellence. We prepare our students to be ethical leaders in the hospitality and tourism industries by providing an environment where meaningful learning and development is a priority. We serve our constituencies through quality teaching, community engagement, and relevant focused research.

### Majors

#### Hospitality and Restaurant Administration (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirement: GRY 100(3)
- B. Major Requirements
  1. Core Courses: HRA 210(3), 215(3), 218(3), 310(3), 321(3), 354(3), 410(3), 426(3), 428(3), 480(3), 490(3), 499(6)
  2. Related Requirements: MKT 150(3) or 350(3); and ACC 201(3)
  3. Complete one of the following options (9 hours):
    - a. **Club Management:** HRA 330(3), 345(3), 430(3)
    - b. **Food and Beverage:** HRA 330(3), 409(3), 435(3)
    - c. **General Operations:** HRA 340(3), 430(3); HRA 315(3) or 435(3)
    - d. **Lodging:** HRA 315(3), 360(3); HRA 430(3) or 436(3)
    - e. **Senior Living Management:** HRA 330(3); GER 310(3), 365(3)
    - f. **Tourism:** GRY 310(3), 328(3); HRA 340(3)
- C. Electives to bring total number of hours to 125. Students are encouraged to use these hours to complete more than one track and to take HRA electives.
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Hospitality and Restaurant Administration Courses

#### HRA 210 Introduction to Hospitality Leadership

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. 3(3-0) F,S

#### HRA 215 Introduction to Lodging Management

Prerequisite: HRA 210 or concurrent enrollment. 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. 3(3-0) F,S

**HRA 218 Safety and Sanitation**

Prerequisite: HRA 210 or concurrent enrollment or permission. Introduction to food service sanitation and safety practices pertinent to hospitality management. Emphasis on sanitation requirements, safe food handling, storage practices and accident prevention. 3(3-0) F,S

**HRA 300 Special Topics in Hospitality and Restaurant Administration**

Prerequisite: permission of Department Head. 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. 1-3 D

**HRA 302 Hospitality and Restaurant Administration Study Tour**

Prerequisite: permission of Department Head. 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. 1-3 D

**HRA 310 Analyzing Financial Performance in Hospitality Operations**

Prerequisite: HRA 210 and HRA 215 and ACC 201. Financial techniques in forecasting, budgeting, and performance measurement, and the application of the hospitality industry uniform system of accounts are covered in this course as they apply to operational and fiscal decision making. 3(3-0) F,S

**HRA 315 Advanced Lodging Management**

Prerequisite: HRA 210 and HRA 215 and ACC 201. Students in this course will analyze the lodging industry in depth. Critical thinking skills are stressed as students are exposed to different viewpoints within a coherent theoretical structure, enabling them to formulate their own ideas and solutions. Current trends and challenges in lodging are also studied in depth. 3(3-0), S

**HRA 321 Principles of Food Preparation**

Prerequisite: HRA 218. Students in this course study the scientific principles and techniques in the selection, preparation and preservation of food including fundamental principles of nutrition and diet. Supplemental course fee. 3(1-4) F,S

**HRA 325 Cultural Cuisine**

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. Supplemental course fee (variable by section.) 1-3 D

**HRA 330 Banquet Operations**

Prerequisite: HRA 210 and HRA 321. This course provides students with practical skills and knowledge for effective management of food and beverage practices, from the preparation of quantity foods to its service. Laboratory arranged. Supplemental course fee. 3(2-2) F,S

**HRA 340 Destination Development**

Prerequisite: HRA 410 or concurrent enrollment; or GRY 310. This course offers a systematic study of hospitality businesses and attractions as they apply to destination development. The role of government agencies, private developers, and investors as they pertain to destination development will be studied. Case studies are used extensively which offer examples of successful and unsuccessful development efforts. 3(3-0) S

**HRA 345 Club Management**

Prerequisite: HRA 210 and HRA 215 and HRA 218. Students study governance, strategy, marketing membership, human resources, and operations that are specific to the private club segment of the hospitality industry. 3(3-0), F

**HRA 354 Hospitality Human Resource Development**

Prerequisite: HRA 210 and HRA 215 and junior standing. 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. 3(3-0) F,S

**HRA 360 Hospitality Facilities Management**

Prerequisite: HRA 210 and HRA 215 and ACC 201. Students in this course study the management of the physical plant of various hospitality enterprises, with a focus on systems, sustainability, design and layout, equipment, development, and renovation. Current facility-related challenges are also addressed 3(3-0), F

**HRA 400 Problems in Hospitality and Restaurant Administration**

Prerequisite: permission of Department Head. Independent study for those who wish additional work in specific subject areas. 1-3 D

**HRA 409 Beverage Operations**

Prerequisite: senior standing; and Hospitality and Restaurant Administration major. Principles and methods of operating a profitable beverage component in a foodservice business. Topics range from inventory control, accounting, equipment and pricing, to legal responsibilities and liability. Supplemental course fee. 3(3-0) F,S

**HRA 410 Hospitality Marketing and Revenue Management**

Prerequisite: HRA 310 or concurrent enrollment; and MKT 150 or MKT 350. The course is designed to provide students with theory and knowledge which will enable them to develop and interpret strategic marketing plans for hospitality enterprises properties. 3(3-0) F,S

**HRA 426 Food and Beverage Management**

Prerequisite: HRA 321; and junior standing. A continuation of the student's familiarization with food service components in the

hospitality industry. Menu, planning, pricing, food service accounting, wage and labor cost control, purchasing, portion control, advertising, sales and other food service principles, practices and techniques are analyzed. 3(3-0) F,S

**HRA 428 Hospitality Law**

Prerequisite: junior standing; and Hospitality and Restaurant Administration major. The study of the legal aspect of lodging and food service operations. Problem-solving approach applied to liability and litigation problems confronting hospitality executives. 3(3-0) F,S

**HRA 430 Special Event Planning**

Prerequisite: MKT 150 or MKT 350; and HRA 321. In-depth analysis of management and operational challenges involved in planning and deploying events as they relate to the hospitality industry. 3(3-0) F,S

**HRA 435 Restaurant Management**

Prerequisite: HRA 321. 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. 3(1-4) F,S

**HRA 436 Casino Operations**

Prerequisite: HRA 354 or concurrent enrollment. 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. 3(3-0) F,S

**HRA 480 Hospitality Industry Strategic Management**

Prerequisite: senior standing and HRA 410. This is an integrative course that focuses on managing the various components of the hospitality industry at both the business and the corporate level. Students use case studies as well as current events in the industry to understand the nature of strategic issues and their management in the hospitality industry. 3(3-0), F,S

**HRA 490 Advanced Hospitality Leadership**

Prerequisite: senior standing; and HRA 354 or concurrent enrollment; and Hospitality and Restaurant Administration major. An in-depth investigation into leadership principles and practices required of professionals in the hospitality industry. 3(3-0) F,S

**HRA 497 International Hospitality Field Study**

Prerequisite: HRA 210 and HRA 215 and HRA 218 and permission. Provides students with first-hand exposure to international issues in hospitality administration. This Study Away experience includes a preparation phase, a two to three week visit to an international destination where students are immersed in the local culture, and a debrief following the trip. Because credit and destinations vary, the course may be repeated to a total of 6 hours. Graded Pass/Not Pass only. Variable content course. 1-3, D

**HRA 499 Internship in Hospitality**

Prerequisite: senior standing; and Hospitality and Restaurant Administration major; and permission. Supervised experience in a cooperative program in hospitality. Student must gain experience/exposure in at least three positions during the internship. The student must be paid for the internship and must work a minimum of 750 hours. 6(0-6) D

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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Mathematics

## Department of Mathematics

Cheek Hall, Room 10M, Phone: (417) 836-5112, Fax: (417) 836-6966

Email: [Mathematics@missouristate.edu](mailto:Mathematics@missouristate.edu)

Website: <http://math.missouristate.edu>

Interim Department Head: Professor Kenneth Vollmar, Ph.D.

### Faculty (as of July 15, 2011)

**Distinguished Professor:** Paula A. Kemp, Ph.D.

**Professors:** Richard G. Belshoff, Ph.D.; Yungchen Cheng, Ph.D.; Kanghui Guo, Ph.D.; Shouchuan Hu, Ph.D.; Kurt Killion, Ed.D.; Shelby Kilmer, Ph.D.; George Mathew, Ph.D.; Lynda M. Plymate, Ph.D.; Gay A. Ragan, Ph.D.; Leslie 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.

**Associate Professors:** Jorge L. Rebaza-Vasquez, Ph.D.; Mark Wayne Rogers, Ph.D.

**Assistant Professors:** James R. McLeane, M.S. (West Plains Campus); Thomas J. Towell, M.S. (West Plains Campus); Abel Jerry Trick, M.S.Ed. (West Plains Campus); Matthew Wright, Ph.D.; Songfeng Zheng, Ph.D.

**Senior Instructor:** Donna N. Sherrill, M.S.Ed.

**Instructors:** Jennifer L. Bearden, M.S.; Patti A. Blanton, M.S.Ed.; Sylvia Carr, M.S.Ed.; Gay F. Ellis, M.A.; Mark E. Gann, M.S.Ed.; Pamela J. Henson, M.S.Ed.; Carolyn Shand-Hawkins, M.S.; Gary L. Stafford, M.A.; Linda R. Sun, M.S.; Dianne M. Twigger, M.S.

**Emeritus Professors:** David I. Ashley, Ph.D.; Earl E. Bilyeu, M.A.; Larry N. Campbell, D.A.; Wallace F. Davis, M.Ed.; James R. Downing, M.S.; Frank S. Gillespie, M.A.; Shirley Huffman, Ph.D.; John D. Kubicek, 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.; Liang-Cheng Zhang, Ph.D.

**Emeritus Instructors:** Mark E. Gann, B.S.; Beverly Weatherwax, M.S.

### Accreditation

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 by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Graduate Programs

The following graduate programs are available:

Mathematics (Master of Science), Secondary Education with an option in Mathematics; and Master of Natural and Applied Science degree with an area of emphasis in Mathematics.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Natural and Applied Science degree

Eligible Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Science degree in Mathematics

Eligible Missouri State undergraduate students majoring in mathematics may apply for preliminary acceptance into the Master of Science degree in Mathematics after admission requirements for the accelerated masters program have been satisfied. If accepted, a maximum of 6 hours of approved graduate level courses may be counted toward both the undergraduate and graduate degree (Mixed Credit). Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## General Information

**High School 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 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.

**Math Placement:** An appropriate placement is required prior to taking any of the entry level mathematics courses beyond MTH 101 as noted in the course prerequisite. Students can use their ACT or SAT math sub score 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 or SAT sub score and the departmental test are different, the student may choose either one after consulting with an advisor.

If you do not have transfer credit for MTH 103 or higher, then your placement in mathematics at Missouri State will be based on your math score from the ACT or SAT. If you do not have either transfer credit or ACT or SAT math scores, then you must either take the math placement exam or begin your math sequence at Missouri State with MTH 101 (Intermediate Algebra I). If you have MTH elective credit in transfer (MTH 000) that needs to be re-evaluated to help determine your placement more appropriately, please e-mail the Department of Mathematics at [Mathematics@Missouristate.edu](mailto:Mathematics@Missouristate.edu). Also, if you have successfully completed an introductory (non-transferable) algebra course at a college, you may receive permission to begin with MTH 103 (Intermediate Algebra).

You may also choose to take the placement exam if you are not satisfied with your placement based on your ACT or SAT math sub score. It is recommended to complete the placement exam prior to registration if possible. You may do so by participating in the scheduled testing sessions during SOAR or call the Mathematics Department at (417) 836-5112 to schedule an appointment.

**Having your ACT or SAT scores sent:** If you will need your ACT or SAT scores for placement purposes, be sure to request that they be sent to us if you have not already done so. Consult [www.act.org](http://www.act.org) (ACT) or <http://www.collegeboard.org> (SAT) for more information. If your scores are on your high school transcript, you may also have your official transcript sent to us.

**Arranging to take the math placement test:** If you need (or choose) to take the math placement test, you may do so by participating in the scheduled testing sessions during SOAR or call the Mathematics Department, Cheek 10M, (417) 836-5112 to schedule an appointment. Adult and evening students may also contact the Office of Adult Student Services, (417) 836-6929 or (800) 492-7900.

You should arrange to have your ACT or SAT scores sent or take the math placement test before you register for your first semester at Missouri State University. You are required to complete your mathematics general education requirement (as well as other basic skills requirements) before being admitted to our degree program

**About the mathematics placement test:** 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. **However, the placement test can only be taken once.** Please contact the Mathematics Department for further information. Students can view their ACT, SAT, and/or placement test scores online through My Missouri State system.

### Placement Using ACT Math Sub Score:

#### Score: Placement

ACT Math  $\geq$  27: MTH 340, 287, 261, 215, 181, 138, 135, 130

ACT Math  $\geq$  26: MTH 287, 181, 138, 135, 130

ACT Math  $\geq$  24: MTH 138, 135, 130, 103, 102, 101

ACT Math  $\geq$  22: MTH 135, 130, 103, 102, 101

ACT Math  $\geq$  20: MTH 103, 101

ACT Math  $\leq$  19: MTH 101

### Placement Using SAT Math Sub score:

#### Score: Placement

SAT Math  $\geq$  620: MTH 340, 287, 285, 261, 215, 181, 138, 135, 130

SAT Math  $\geq$  600: MTH 287, 285, 181, 138, 135, 130

SAT Math  $\geq$  560: MTH 138, 135, 130, 103

SAT Math  $\geq$  520: MTH 135, 130, 103

SAT Math  $\geq$  480: MTH 103, 101

SAT Math  $\leq$  480: MTH 101

### Placement Using Department Placement Test:

#### Code: Eligible Courses

A: MTH 340, 287, 261, 215, 181, 138, 135, 130

B: MTH 287, 181, 138, 135, 130

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

K: MTH 101

**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 Risk Management and 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.

## Majors

### Mathematics (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) 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 421(3) or 541(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 53 hours.
  - 3. Courses required from related areas: CSC 125(4) or 131(4); PHY 203(5) (PHY 203 may partially fulfill the natural world general education requirement.)
- C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Mathematics (Non-Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) 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), 575(3), 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(4) or 131(4)
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Mathematics (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) 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 543(3), 546(3), 547(3), 548(3)
      - 3. A minor in Insurance is recommended
    - b. **Applied Mathematics:**
      - 1. MTH 421(3), 580(3)
      - 2. Select an additional six hours from the following courses: MTH 422(3), 507(3), 537(3), 543(3), 570(3)
    - c. **General Mathematics:**
      - 1. MTH 421(3) or 541(3)
      - 2. Select an additional nine 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(4) or 131(4); PHY 203(5) (PHY 203 may partially fulfill the Natural World general education requirement.)
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Mathematics

Bachelor of Science in Education  
(Certifiable grades 9-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) 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(4) 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 the Professional Education Required Core and Competencies - see [Teacher Certification](#), [Teacher Education Program](#) and [Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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.

## Minors

### Mathematics

Bachelor of Arts  
Bachelor of Science

- A. MTH 261(5), 280(5), 215(3) or 315(3)
- B. Additional mathematics courses numbered 300 or above, other than MTH 315, to total at least 15 hours.

### 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(4), 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.

## Mathematics Courses

### MTH 101 Intermediate Algebra I

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. 2(1-2) F,S

### MTH 102 Intermediate Algebra II

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. 2(1-2) F,S

### MTH 103 Intermediate Algebra

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 the MTH 101-102 sequence and MTH 103. 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. 3(3-0) F,S

### MTH 130 Contemporary Mathematics

Prerequisite: "C" grade or better in MTH 102 or MTH 103 or approved score on a departmental placement test. General Education Course (Basic Required Courses). This is a problem solving and applications of mathematics course. Topics to be studied will include, but not limited to: the art of problem solving, geometry, probability, statistics, and mathematics of finance. May not count towards a mathematics major or minor. May not be taken Pass/Not Pass. 3(3-0) F,S

### MTH 135 College Algebra

Prerequisite: "C" grade or better in MTH 102 or MTH 103, or appropriate placement score. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

### MTH 138 Pre-Calculus Mathematics

Prerequisite: "C" grade or better in MTH 102 or MTH 103 (Recommended: "B" grade or better in MTH 102 or MTH 103), or appropriate placement score. General Education Course (Basic Required Courses) 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. 5(5-0) F,S

#### **MTH 181 Trigonometry**

Prerequisite: "C" grade or better in MTH 135 or appropriate placement score. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

#### **MTH 215 Discrete Mathematics**

Prerequisite: MTH 138 or approved calculus course or appropriate placement score. General Education Course (Basic Required Courses). Topics include: logic, mathematical reasoning, basic counting, discrete probability, matrices, recursion, sets and relations, graphs and trees. 3(3-0) F,S

#### **MTH 261 Analytic Geometry and Calculus I**

Prerequisite: "C" grade or better in MTH 138 or MTH 181 or appropriate placement score. General Education Course (Basic Required Courses). 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. 5(5-0) F,S

#### **MTH 280 Analytic Geometry and Calculus II**

Prerequisite: "C" or better in MTH 261. General Education Course (Basic Required Courses). 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. 5(5-0) F,S

#### **MTH 285 Calculus for Business and the Social Sciences**

Prerequisite: "C" or better in MTH 135, or appropriate placement score. General Education Course (Basic Required Courses). 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. 3(3-0) F,S

#### **MTH 287 Computational Calculus with Analytic Geometry I**

Prerequisite: "C" or better in MTH 135 or MTH 138, or an approved score on a department placement test. General Education Course (Basic Required Courses). 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. 3(3-0) F

#### **MTH 288 Computational Calculus II**

Prerequisite: "C" grade or better in MTH 261 or MTH 287. General Education Course (Basic Required Courses). 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. 3(3-0) S

#### **MTH 299 Introductory Topics in Mathematics**

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. 1-3 D

#### **MTH 300 Service Learning in Mathematics**

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. 1 F,S

#### **MTH 302 Multivariate Calculus**

Prerequisite: MTH 280. Vector algebra and calculus, solid analytic geometry, partial differentiation, multiple integration, vector fields. 3(3-0) F,S

#### **MTH 303 Differential Equations**

Prerequisite: MTH 280. Ordinary differential equations; their solutions and applications. Introduction to operators and the Laplace transformation. 3(3-0) F,S

#### **MTH 315 Algebraic Structures**

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. 3(3-0) F,S

#### **MTH 320 Foundations of Mathematics for Teachers**

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. 3(2-2) F,S

#### **MTH 340 Statistical Methods**

Prerequisite: completion of General Education mathematics requirement 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, MTH 340, PSY 200, QBA 237, REC 328, SOC 302. 3(3-0) F,S

#### **MTH 343 Foundations of Probability and Statistics for Teachers**

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. 3(2-2) F,S

#### **MTH 345 Statistics for Scientists and Engineers**

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. 3(3-0) F,S

#### **MTH 360 Foundations of Geometry for Teachers**

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. 3(2-2) F,S

#### **MTH 377 Mathematical Processes**

Prerequisite: MTH 135 or MTH 138; and MTH 340 or MTH 343. This course examines both finite and infinite mathematical processes used when solving problems involving discrete or continuous data. As an activity-based 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. 3(2-2) S

#### **MTH 409 Teaching and Learning of Mathematics I**

Prerequisite: SEC 302 and 15 hours of college mathematics, and admission to the Teacher Education Program. 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. May not be taken Pass/Not Pass. Will not count toward the major GPA. 3(2-2) S

#### **MTH 410 Teaching and Learning of Mathematics II, with Practicum**

Prerequisite: MTH 409, and admission to the Teacher Education Program. Focus on developing the reflective decisionmaker'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. May not be taken Pass/Not Pass. Will not count toward the major GPA. 3(2-2) F

#### **MTH 421 Numerical Analysis I**

Prerequisite: MTH 280. Recommended Prerequisite: CSC 125 or CSC 131. Solution of systems of linear and nonlinear equations, interpolation, integration, approximation, matrix computations. Problem solution will include the use of software. Identical with CSC 421. Cannot receive credit for both MTH 421 and CSC 421. 3(3-0) D

#### **MTH 422 Numerical Analysis II**

Prerequisite: MTH 303 and MTH 421. Solution of initial and boundary value problems in ordinary and partial differential equations, simulation, and optimization. Problem solution will include the use of software. Identical with CSC 422. Cannot receive credit for both MTH 422 and CSC 422. 3(3-0) D

#### **MTH 450 Theory of Interest**

Prerequisite: MTH 280. 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. 3(3-0) S

#### **MTH 460 College Geometry**

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 nine-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. 3(3-0) F,S

**MTH 479 Mathematical Tools and Structures**

Prerequisite: MTH 343 or MTH 360. Recommended Prerequisite: 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. 3(2-2) F

**MTH 493 Supervised Teaching (Secondary Mathematics)**

Prerequisite: MTH 409; MTH 410; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches mathematics 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**MTH 494 Supervised Teaching (Secondary Mathematics)**

Prerequisite: concurrent enrollment in MTH 493. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 F,S

**MTH 496 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**MTH 497 Topics**

Prerequisite: 90 credit hours. Recommended Prerequisite: 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. 1(1-0) F,S

**MTH 503 Advanced Calculus I**

Prerequisite: MTH 280 and MTH 315. Concepts of limit, continuity, differentiation, Riemann integration, sequences and series, other related topics. May be taught concurrently with MTH 603. Cannot receive credit for both MTH 603 and MTH 503. 3(3-0) F,S

**MTH 504 Advanced Calculus II**

Prerequisite: MTH 302 and MTH 503. This is a continuation of MTH 503, including sequences and series of functions, uniform convergence, multivariate calculus, and other selected topics. May be taught concurrently with MTH 604. Cannot receive credit for both MTH 604 and MTH 504. 3(3-0) D

**MTH 506 Theory of Functions of a Complex Variable**

Prerequisite: MTH 280 and MTH 315. Theory of elementary functions-polynomial, trigonometric, exponential, hyperbolic, logarithmic-of a complex variable; their derivatives, integrals; power series; other selected topics. May be taught concurrently with MTH 605. Cannot receive credit for both MTH 605 and MTH 506. 3(3-0) D

**MTH 507 Introduction to Partial Differential Equations**

Prerequisite: MTH 302 and 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. May be taught concurrently with MTH 607. Cannot receive credit for both MTH 607 and MTH 507. 3(3-0) D

**MTH 532 Introduction to Abstract Algebra**

Prerequisite: MTH 302 and MTH 315. It is recommended that students not take MTH 532 before taking MTH 533. Theory of groups, rings, integral domains, fields, polynomials. May be taught concurrently with MTH 631. Cannot receive credit for both MTH 631 and MTH 532. 3(3-0) F

**MTH 533 Linear Algebra I**

Prerequisite: MTH 280 and MTH 315. Vector spaces, linear independence, inner product spaces, linear transformations, Eigenvectors, diagonalization. May be taught concurrently with MTH 633. Cannot receive credit for both MTH 633 and MTH 533. 3(3-0) F,S

**MTH 534 Linear Algebra II**

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. May be taught concurrently with MTH 634. Cannot receive credit for both MTH 634 and MTH 534. 3(3-0) D

#### **MTH 536 Theory of Numbers**

Prerequisite: MTH 302 and MTH 315. Factorization, Euler totient function, congruences, primitive roots, quadratic residues and reciprocity law. May be taught concurrently with MTH 636. Cannot receive credit for both MTH 636 and MTH 536. 3(3-0) D

#### **MTH 537 Applied Abstract Algebra**

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. May be taught concurrently with MTH 637. Cannot receive credit for both MTH 637 and MTH 537. 3(3-0) D

#### **MTH 540 Statistical Theory I**

Prerequisite: MTH 302 and MTH 315. Random variables, discrete and continuous probability functions, expectation, moment-generating functions, transformation of variables. May be taught concurrently with MTH 640. Cannot receive credit for both MTH 640 and MTH 540. 3(3-0) F

#### **MTH 541 Statistical Theory II**

Prerequisite: MTH 540 or equivalent. Estimation, complete and sufficient statistics, maximum likelihood estimation, hypothesis testing, nonparametric statistics. May be taught concurrently with MTH 643. Cannot receive credit for both MTH 643 and MTH 541. 3(3-0) S

#### **MTH 543 Stochastic Modeling**

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. May be taught concurrently with MTH 653. Cannot receive credit for both MTH 653 and MTH 543. 3(3-0) S

#### **MTH 545 Applied Statistics**

Prerequisite: 60 credit hours and completion of General Education Mathematics Requirement. 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. May be taught concurrently with MTH 645. Cannot receive credit for both MTH 645 and MTH 545. 3(3-0) F

#### **MTH 546 Analysis of Variance and Design of Experiments**

Prerequisite: MTH 345 or MTH 541 or MTH 545. Topics include analysis of variance, estimation of variance components, randomized incomplete blocks, Latin squares, factorial nested, split-plot designs, fixed, random and mixed models. May be taught concurrently with MTH 646. Cannot receive credit for both MTH 646 and MTH 546. 3(3-0) D

#### **MTH 547 Applied Regression Analysis**

Prerequisite: MTH 345 or MTH 541 or MTH 545. Topics include fitting a straight line, matrix models, residuals, selecting best equation, multiple regression, and nonlinear estimation. May be taught concurrently with MTH 647. Cannot receive credit for both MTH 647 and MTH 547. 3(3-0) D

#### **MTH 548 Applied Time Series Analysis**

Prerequisite: MTH 540; and MTH 345 or MTH 541 or MTH 545. 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. May be taught concurrently with MTH 648. Cannot receive credit for both MTH 648 and MTH 548. 3(3-0) F

#### **MTH 567 Introduction to Non-Euclidean Geometry**

Prerequisite: MTH 302 and MTH 315. Development of non-Euclidean geometries; intensive study of hyperbolic geometry. May be taught concurrently with MTH 667. Cannot receive credit for both MTH 667 and MTH 567. 3(3-0) S

#### **MTH 570 Combinatorial Analysis**

Prerequisite: MTH 280 and MTH 315. An introduction to combinatorial analysis including enumeration methods, combinatorial identities with applications to the calculus of finite differences and difference equations. May be taught concurrently with MTH 670. Cannot receive credit for both MTH 670 and MTH 570. 3(3-0) D

#### **MTH 575 History of Mathematics**

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. May be taught concurrently with MTH 675. Cannot receive credit for both MTH 675 and MTH 575. 3(3-0) F,S

#### **MTH 580 Applied Mathematics**

Prerequisite: MTH 303 and MTH 533. 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. May be taught concurrently with MTH 680. Cannot receive credit for both MTH 680 and MTH 580. 3(3-0) D

#### **MTH 582 Introductory Topology**

Prerequisite: MTH 302 and MTH 315. Properties of abstract metric and topological spaces; discussion of concepts of compactness and connectedness. May be taught concurrently with MTH 682. Cannot receive credit for both MTH 682 and MTH 582. 3(3-0) D

**MTH 596 Readings**

Prerequisite: permission of the department head. Periodic conferences with an advisor are required. May be repeated to a total of 6 hours. May be taught concurrently with MTH 696. Cannot receive credit for both MTH 696 and MTH 596. 1-3 F,S

**MTH 603 Advanced Calculus I**

Prerequisite: MTH 280 and MTH 315. Concepts of limit, continuity, differentiation, Riemann integration, sequences and series, other related topics. May be taught concurrently with MTH 503. Cannot receive credit for both MTH 503 and MTH 603. 3(3-0), F,S

**MTH 604 Advanced Calculus II**

Prerequisite: MTH 302; and MTH 503 or MTH 603. This is a continuation of MTH 603, including sequences and series of functions, uniform convergence, multivariate calculus, and other selected topics. May be taught concurrently with MTH 504. Cannot receive credit for both MTH 504 and MTH 604. 3(3-0), D

**MTH 605 Theory of Functions of a Complex Variable**

Prerequisite: MTH 280 and MTH 315. Theory of elementary functions-polynomial, trigonometric, exponential, hyperbolic, logarithmic-of a complex variable; their derivatives, integrals; power series; other selected topics. May be taught concurrently with MTH 506. Cannot receive credit for both MTH 506 and MTH 605. 3(3-0), D

**MTH 607 Introduction to Partial Differential Equations**

Prerequisite: MTH 302 and 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. May be taught concurrently with MTH 507. Cannot receive credit for both MTH 507 and MTH 607. 3(3-0), D

**MTH 631 Introduction to Abstract Algebra**

Prerequisite: MTH 302 and MTH 315. Theory of groups, rings, integral domains, fields, polynomials. May be taught concurrently with MTH 532. Cannot receive credit for both MTH 532 and MTH 631. 3 (3-0), F

**MTH 633 Linear Algebra I**

Prerequisite: MTH 280 and MTH 315. Vector spaces, linear independence, inner product spaces, linear transformations, Eigenvectors, diagonalization. May be taught concurrently with MTH 533. Cannot receive credit for both MTH 533 and MTH 633. 3(3-0), F,S

**MTH 634 Linear Algebra II**

Prerequisite: MTH 533 or MTH 633. 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. May be taught concurrently with MTH 534. Cannot receive credit for both MTH 534 and MTH 634. 3 (3-0), D

**MTH 636 Theory of Numbers**

Prerequisite: MTH 302 and MTH 315. Factorization, Euler totient function, congruences, primitive roots, quadratic residues and reciprocity law. May be taught concurrently with MTH 536. Cannot receive credit for both MTH 536 and MTH 636. 3(3-0), D

**MTH 637 Applied Abstract Algebra**

Prerequisite: MTH 532 or MTH 632 or MTH 533 or MTH 633. 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. May be taught concurrently with MTH 537. Cannot receive credit for both MTH 537 and MTH 637. 3 (3-0), D

**MTH 640 Statistical Theory I**

Prerequisite: MTH 302 and MTH 315. Random variables, discrete and continuous probability functions, expectation, moment-generating functions, transformation of variables. May be taught concurrently with MTH 540. Cannot receive credit for both MTH 540 and MTH 640. 3(3-0), F

**MTH 643 Statistical Theory II**

Prerequisite: MTH 540 or MTH 640 or equivalent. Estimation, complete and sufficient statistics, maximum likelihood estimation, hypothesis testing, nonparametric statistics. May be taught concurrently with MTH 541. Cannot receive credit for both MTH 541 and MTH 643. 3(3-0), S

**MTH 645 Applied Statistics**

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. May be taught concurrently with MTH 545. Cannot receive credit for both MTH 545 and MTH 645. 3(3-0), F

**MTH 646 Analysis of Variance and Design of Experiments**

Prerequisite: MTH 345 or MTH 541 or MTH 643 or MTH 545 or MTH 645. Topics include analysis of variance, estimation of variance components, randomized incomplete blocks, Latin squares, factorial nested, split-plot designs, fixed, random and mixed models. May be taught concurrently with MTH 546. Cannot receive credit for both MTH 546 and MTH 646. 3(3-0), D

**MTH 647 Applied Regression Analysis**

Prerequisite: MTH 345 or MTH 541 or MTH 643 or MTH 545 or MTH 645. Topics include fitting a straight line, matrix models, residuals, selecting best equation, multiple regression, and nonlinear estimation. May be taught concurrently with MTH 547. Cannot receive credit for both MTH 547 and MTH 647. 3(3-0), D

**MTH 648 Applied Time Series Analysis**



Prerequisite: MTH 540 or MTH 640; and MTH 345 or MTH 541 or MTH 643 or MTH 545 or MTH 645. 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. May be taught concurrently with MTH 548. Cannot receive credit for both MTH 548 and MTH 648. 3(3-0), F

#### **MTH 653 Stochastic Modeling**

Prerequisite: MTH 540 or MTH 640. 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. May be taught concurrently with MTH 543. Cannot receive credit for both MTH 543 and MTH 653. 3(3-0), S

#### **MTH 667 Introduction to Non-Euclidean Geometry**

Prerequisite: MTH 302 and MTH 315. Development of non-Euclidean geometries; intensive study of hyperbolic geometry. May be taught concurrently with MTH 567. Cannot receive credit for both MTH 567 and MTH 667. 3(3-0), S

#### **MTH 670 Combinatorial Analysis**

Prerequisite: MTH 280 and MTH 315. An introduction to combinatorial analysis including enumeration methods, combinatorial identities with applications to the calculus of finite differences and difference equations. May be taught concurrently with MTH 570. Cannot receive credit for both MTH 570 and MTH 670. 3(3-0), D

#### **MTH 675 History of Mathematics**

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. May be taught concurrently with MTH 575. Cannot receive credit for both MTH 575 and MTH 675. 3(3-0), F, S

#### **MTH 680 Applied Mathematics**

Prerequisite: MTH 303; and MTH 533 or MTH 633. 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. May be taught concurrently with MTH 580. Cannot receive credit for both MTH 580 and MTH 680. 3(3-0), D

#### **MTH 682 Introductory Topology**

Prerequisite: MTH 302 and MTH 315. Properties of abstract metric and topological spaces; discussion of concepts of compactness and connectedness. May be taught concurrently with MTH 582. Cannot receive credit for both MTH 582 and MTH 682. 3(3-0), D

#### **MTH 696 Readings**

Prerequisite: permission of department head. Periodic conferences with an advisor are required. May be repeated to a total of 6 hours. May be taught concurrently with MTH 596. Cannot receive credit for both MTH 596 and MTH 696. 1-3, F,S

#### **MTH 701 Real Analysis**

Prerequisite: MTH 503 or MTH 603. 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. 3(3-0), D

#### **MTH 702 Real and Abstract Analysis**

Prerequisite: MTH 701. A study of the theory of abstract measures and integration, and an introduction to functional analysis. 3(3-0), D

#### **MTH 706 Complex Analysis**

Prerequisite: MTH 503 or MTH 603. 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. 3 (3-0), D

#### **MTH 710 Contemporary Mathematics for Secondary Teachers**

Prerequisite: MTH 460; and MTH 533 or MTH 633. Reports, research, and recent trends in secondary mathematics; recently developed programs in algebra and geometry. 3(3-0), D

#### **MTH 721 Theory of Ordinary Differential Equations I**

Prerequisite: MTH 303; and MTH 503 or MTH 603. 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. 3(3-0), D

#### **MTH 722 Theory of Ordinary Differential Equations II**

Prerequisite: MTH 721. 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. 3(3-0), D

#### **MTH 730 Abstract Algebra I**

Prerequisite: MTH 532 or MTH 631; and MTH 533 or MTH 633. Topics from group theory will include Cayley's Theorem, finite abelian groups, Cauchy's Theorem, the Sylow Theorems, and free groups. 3(3-0), D

#### **MTH 732 Abstract Algebra II**

Prerequisite: MTH 730. 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. 3(3-0),D

**MTH 741 Statistical Inference I**

Prerequisite: MTH 540 or MTH 640 or equivalent. 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. 3(3-0), D

**MTH 742 Statistical Inference II**

Prerequisite: MTH 741. 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. 3(3-0), D

**MTH 781 Topology**

Point set topology in abstract spaces. 3(3-0), D

**MTH 791 Seminar I**

Seminar in Mathematics. 2(2-0), F, S

**MTH 792 Seminar II**

Seminar in Mathematics. 2(2-0), F, S

**MTH 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**MTH 797 Topics**

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. 3(3-0), D

**MTH 798 Research**

Supervised research in special areas of mathematics. May be repeated. May not be counted toward the Master of Science in Education degree. 1-6, F, S

**MTH 799 Projects**

Independent research for thesis preparation. 1-6, F, S



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Missouri State > Office of the Registrar > Undergraduate Catalog > College of Natural and Applied Sciences > Department of Physics, Astronomy and Materials Science

## Department of Physics, Astronomy and Materials Science

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Email: [Physics@missouristate.edu](mailto:Physics@missouristate.edu)  
Website: <http://physics.missouristate.edu>  
Department Head: Professor David M. Cornelison, Ph.D.

### Faculty (as of July 15, 2011)

**Distinguished Professor:** Ryan E. Giedd, Ph.D.

**Professors:** Kartik Ghosh, Ph.D.; Shyang Huang, Ph.D.; Pawan K. Kahol, Ph.D.; Kandiah Manivannan, Ph.D.; Robert A. Mayanovic, Ph.D.; Saibal Mitra, Ph.D.; Robert S. Patterson, Ph.D.; Emmett R. Redd, Ph.D.; William E. Thomas, Ph.D.; Robert J. Whitaker, Ph.D.

**Associate Professors:** Lifeng Dong, Ph.D.; Michael D. Reed, Ph.D.

**Senior Instructor:** Cheryl P. Wrinkle, Ph.D.

**Instructor:** Rebecca Baker, M.S.

**Emeritus Professors:** Betty L. Bitner, Ed.D.; David L. Carleton, M.S.; Howard M. Petefish, Ph.D.; Bruno F. Schmidt, Ph.D.; Robert E. Thurman, Ph.D.; George W. Wolf, Ph.D.

### Accreditation

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.

### Credit by Examination

Credit by Examination is available. Refer to the [Credit by Examination](#) policy in the Academic Regulations section of the catalog.

### Program Requirements and Restrictions

**Mathematical Preparation:** 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 six 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.

**Dated Courses:** Courses taken more than 10 years before graduation are subject to review and possible rejection by the department faculty.

### Graduate Programs

The following graduate programs are available:

Materials Science (Master of Science); Secondary Education with option in Physics (Master of Science in Education); Master of Natural and Applied Science degree with an area of emphasis in Physics.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Natural and Applied Science degree

Eligible Missouri State undergraduate students in a major 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 option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). 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. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Science degree in Materials Science

Eligible Missouri State undergraduate students majoring in Physics may apply for preliminary acceptance into the Master of Science program in Materials Science after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 9 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit).

This challenging option is for students who have a strong interest in becoming experts in electronic materials. This includes the fields of Solid State Physics, Photonics, Opto-electronics, Electrical Engineering, and Computer Engineering. While not essential for eventual admission to the program, it is strongly recommended that, as freshmen, students contact the department head for permission to become involved in the program. This will allow for appropriate advisement during the undergraduate years. Refer to

the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## General Information

**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.

**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.

## Majors

### Physics (Non-Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) 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 (or second major)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Physics Education

Bachelor of Science in Education  
(Certifiable grades 9-12)

- A. General Education Requirements - see [General Education Program and Requirements](#) 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 (37 hours): SCI 214(1), 314(3), 414(3), 493(6), 494(6); and the Professional Education Required Core and Competencies - see [Teacher Certification, Teacher Education Program and Secondary Education Requirements](#) section of catalog
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree 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.

## 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 AST 114 was taken; PHY 123(4), 124(4), 386(1), 486(1)

### **Environmental Physics Technology**

Bachelor of Science

- A. PHY 123(4), 124(4), 352(3), 373(3)
- B. CHM 105(5) or 160(4); GRY 135(4)

### **Physics**

Bachelor of Science

- A. PHY 203(5), 204(5)
- B. Electives from any other physics courses to bring total to 20 hours with no more than 14 hours of courses numbered below 300.

## **Astronomy Courses**

### **AST 110 Astronomical Observations**

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. 1(0-2) D

### **AST 111 Astronomical Frontiers**

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. 2(2-0) D

### **AST 113 Modern Astronomy**

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. 3(3-0) F,S

### **AST 114 Survey of Astronomy**

General Education Course (Natural World). Historical and descriptive aspects of astronomy; topics of current interest related to space science. Cannot receive credit for both AST 114 and 115. 4(4-0) F,S

### **AST 115 Basic Astronomy**

General Education Course (Natural World). 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. 4(3-2) F,S

### **AST 311 Astronomical Techniques**

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. 3(2-2) F

### **AST 313 The New Solar Systems**

Prerequisite: AST 114 or AST 115; MTH 138 or above. 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. 3(3-0) FO

### **AST 315 The Lives and Deaths of Stars**

Prerequisite: AST 114 or 115; and MTH 138 or above. 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. 3(3-0) SO

### **AST 317 Our Universe, the Final Frontier**

Prerequisite: AST 114 or AST 115; and MTH 138 or above. 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. 3(3-0) SE

### **AST 513 Solar and Extra-Solar Systems**

Prerequisite: AST 114 or 115; and MTH 303. Formation of planetary systems, planetary dynamics, and comparative planetology. Project required. Cannot receive credit for both AST 313 and AST 513. May be taught concurrently with AST 613. Cannot receive credit for both AST 613 and AST 513. 3(3-0) FO

### **AST 515 Stellar Structure and Evolution**

Prerequisite: AST 114 or 115; and MTH 303. Basic concepts of stellar structure, atmospheres, and evolution. Project required. Cannot receive credit for both AST 315 and AST 515. May be taught concurrently with AST 615. Cannot receive credit for both AST 615 and AST 515. 3(3-0) SO

### **AST 517 Galaxies and Cosmology**

Prerequisite: AST 114 or 115; and MTH 303. 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. May be taught concurrently with AST 617. Cannot receive credit for both AST 617 and AST 517. 3(3-0) SE

### **AST 613 Solar and Extra-Solar Systems**

Prerequisite: AST 114 or AST 115; and MTH 303. Formation of planetary systems, planetary dynamics, and comparative planetology. Project required. Cannot receive credit for both AST 313 and AST 613. May be taught concurrently with AST 513. Cannot receive credit for both AST 513 and AST 613. 3(3-0), FO

**AST 615 Stellar Structure and Evolution**

Prerequisite: AST 114 or AST 115; and MTH 303. Basic concepts of stellar structure, atmospheres, and evolution. Project required. Cannot receive credit for both AST 315 and AST 615. May be taught concurrently with AST 515. Cannot receive credit for both AST 515 and AST 615. 3(3-0), SO

**AST 617 Galaxies and Cosmology**

Prerequisite: AST 114 or AST 115; and MTH 303. 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 617. May be taught concurrently with AST 517. Cannot receive credit for both AST 517 and AST 617. 3(3-0), SE

**AST 711 Astronomy for Teachers**

Theory and techniques of observational astronomy. 3(2-2) D

## Materials Science Courses

**MAT 509 Special Topics in Materials Science**

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. May be taught concurrently with MAT 609. Cannot receive credit for both MAT 609 and MAT 509. 1-3 D

**MAT 540 Thermodynamics of Materials**

Prerequisite: PHY 343 or CHM 506. 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. May be taught concurrently with MAT 640. Cannot receive credit for both MAT 540 and MAT 640. 3(3-0) F

**MAT 550 Introduction to Materials Science**

Prerequisite: PHY 375 or CHM 507. 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. May be taught concurrently with MAT 651. Cannot receive credit for both MAT 550 and MAT 651. 3(3-0) F

**MAT 580 Structure of Solids**

Prerequisite: PHY 375 or CHM 507. 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. May be taught concurrently with MAT 681. Cannot receive credit for both MAT 580 and MAT 681. 3(3-0) F

**MAT 609 Special Topics in Materials Science**

Prerequisite: permission of instructor. Variable content 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. May be taught concurrently with MAT 509. Cannot receive credit for both MAT 509 and MAT 609. 1-3, D

**MAT 640 Thermodynamics of Materials**

Prerequisite: PHY 343 or CHM 506 or CHM 606. 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. May be taught concurrently with MAT 540. Cannot receive credit for both MAT 540 and MAT 640. 3(3-0), F

**MAT 651 Introduction to Materials Science**

Prerequisite: PHY 375 or CHM 507 or CHM 607. 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. May be taught concurrently with MAT 550. Cannot receive credit for both MAT 550 and MAT 651. 3(3-0), F

**MAT 681 Structure of Solids**

Prerequisite: PHY 375 or CHM 507 or CHM 607. 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. May be taught concurrently with MAT 580. Cannot receive credit for both MAT 580 and MAT 681. 3(3-0), F

**MAT 720 Advanced Quantum Mechanics**

Prerequisite: PHY 575 or PHY 675. 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. 3(3-0), S

**MAT 750 Experimental Design**

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. 3(1-4), F

**MAT 758 Optoelectronic Materials**

Prerequisite: MAT 681. Course includes the study of advanced electronic properties of materials, lattice dynamics, and a survey of the optical-electronic interactions in materials. 3(3-0), S

#### **MAT 760 Experiments in Physical Characterization**

Prerequisite: MAT 651 and MAT 681. Laboratory techniques in electronic, optical, and thermal characterization of materials. Students will become familiar with equipment and procedures used in research and commercial laboratories. 3(1-4), S

#### **MAT 770 Vapor Synthesis of Materials**

Prerequisite: MAT 640 and MAT 651. 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. 3(1-4), S

#### **MAT 780 Polymer Preparation and Characterization**

Prerequisite: MAT 651 and MAT 760. 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. 3(1-4), S

#### **MAT 790 Statistical Applications in Materials Science**

Prerequisite: MAT 651. 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. 3(3-0), S

#### **MAT 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

#### **MAT 798 Seminar in Materials Science**

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. 1, S

#### **MAT 799 Research in Materials Science**

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. 1-6, D

## **Physics Courses**

#### **PHY 100 Survey of Physics with Laboratory**

General Education Course (Natural World). 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. 4(3-2) F

#### **PHY 101 Physics by Inquiry for Educators**

Prerequisite: open only to Early Childhood, Elementary, Middle School, and Special Education majors. General Education Course (Natural World). 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. 4(2-4) F,S

#### **PHY 123 Introduction to Physics I**

Prerequisite: eligibility for enrollment in MTH 261; and CIS/CSC 101 or CSC 111. General Education Course (Natural World). 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. 4(3-2) F,S

#### **PHY 124 Introduction to Physics II**

Prerequisite: "C" grade or better in PHY 123. A continuation of PHY 123 in the content areas of electricity and magnetism, electronics, and optics. 4(3-2) F,S

#### **PHY 131 Mini Physics**

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. 1(1-0) F,S

#### **PHY 141 Mini Physics Laboratory**

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. 1(0-2) F,S

#### **PHY 203 Foundations of Physics I**

Prerequisite: MTH 261 (completed); or MTH 261 (concurrent enrollment) and ACT mathematics score equal to more than 29. General Education Course (Natural World). 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. Supplemental course fee. 5(3-4) F,S

### **PHY 204 Foundations of Physics II**

Prerequisite: "C" grade or better in PHY 203; and; either MTH 280 or MTH 288 or concurrent enrollment in MTH 280. 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. Supplemental course fee. 5(3-4) F,S

### **PHY 220 Introduction to Structure and Logic of Digital Computers**

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. Supplemental course fee. 4(2-4) F,S

### **PHY 233 Engineering Statics**

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. 3(3-0) S

### **PHY 252 Introduction to Circuit Analysis**

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. 3(3-0) S

### **PHY 300 Service Learning in Physics**

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. 1 F,S

### **PHY 324 Instrumental/Computer Interfacing**

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. 4(2-4) F,S

### **PHY 333 Intermediate Mechanics**

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. 3(3-0) F

### **PHY 343 Thermal Physics**

Prerequisite: PHY 203; and MTH 302 or concurrent enrollment. 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. 3(3-0) S

### **PHY 352 Electronic Circuit Design**

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. 3(1-4) F

### **PHY 353 Elementary Field Theory**

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. 3(3-0) F

### **PHY 354 Signals and Systems**

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. 3(3-0) S

### **PHY 373 Radiation Physics**

Prerequisite: PHY 124 or PHY 204. Theory of and measurement techniques for electromagnetic and particulate radiation. 3(2-2) F

### **PHY 375 Twentieth Century Physics I**

Prerequisite: PHY 204; and MTH 302 or concurrent enrollment. 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. 3(3-0) F

### **PHY 385 Experiments in Twentieth Century Physics**

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. 2(1-2) S

### **PHY 386 Undergraduate Research I**

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. 1(1-0) F,S

**PHY 390 Interdisciplinary Topics in Physics**

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. 1-4 D

**PHY 391 Mathematics for Science and Engineering I**

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. 3(3-0) S

**PHY 392 Mathematics for Science and Engineering II**

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. 3(3-0) D

**PHY 399 Cooperative Education in Physics**

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. 1-3 D

**PHY 409 Selected Topics in Physics**

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. 1-5 D

**PHY 463 Physical Optics**

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. 3(3-0) F

**PHY 475 Introduction to Solid State Physics**

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. 3(3-0) D

**PHY 476 Twentieth Century Physics II**

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. 3(3-0) S

**PHY 485 Instrumentation Circuit Design**

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. 3(1-4) S

**PHY 486 Undergraduate Research II**

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. 1(0-2) F,S

**PHY 495 Readings in Physics**

Prerequisite: permission of department head. Independent reading; topics not offered in regular courses. Course may be repeated to a total of 4 hours. 1-4 D

**PHY 499 Honors Project in Physics**

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. 1-3 D

**PHY 501 Physics and Astronomy By Inquiry**

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. May be taught concurrently with PHY 602. Cannot receive credit for both PHY 501 and PHY 602. 2(1-2) F

**PHY 509 Special Topics in Physics and Astronomy**

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. May be taught concurrently with PHY 609. Cannot receive credit for both PHY 609 and PHY 509. 1-3 D

**PHY 524 Digital Signal Processing**

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. May be taught concurrently with PHY 624. Cannot receive credit for both PHY 524 and PHY 624. 4(2-4) S

**PHY 533 Advanced Mechanics**



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. May be taught concurrently with PHY 633. Cannot receive credit for both PHY 533 and PHY 633. 3(3-0) D

**PHY 543 Kinetic Theory and Statistical Mechanics**

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. May be taught concurrently with PHY 643. Cannot receive credit for both PHY 543 and PHY 643. 3(3-0) D

**PHY 553 Electromagnetic Field Theory**

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. May be taught concurrently with PHY 653. Cannot receive credit for both PHY 553 and PHY 653. 3(3-0) D

**PHY 558 Physics of Semiconductor Devices**

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. May be taught concurrently with PHY 658. Cannot receive credit for both PHY 558 and PHY 658. 3(3-0) D

**PHY 575 Quantum Mechanics**

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. May be taught concurrently with PHY 675. Cannot receive credit for both PHY 575 and PHY 675. 3(3-0) F

**PHY 590 Applied Group Theory**

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. May be taught concurrently with PHY 691. Cannot receive credit for both PHY 590 and PHY 691. 3(3-0) D

**PHY 602 Physics and Astronomy By Inquiry**

Prerequisite: 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. May be taught concurrently with PHY 501. Cannot receive credit for both PHY 501 and PHY 602. 2(1-2), F

**PHY 609 Special Topics in Physics and Astronomy**

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. May be taught concurrently with PHY 509. Cannot receive credit for both PHY 609 and PHY 509. 1-3 D

**PHY 624 Digital Signal Processing**

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. May be taught concurrently with PHY 524. Cannot receive credit for both PHY 524 and PHY 624. 4(2-4), S

**PHY 633 Advanced Mechanics**

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. May be taught concurrently with PHY 533. Cannot receive credit for both PHY 533 and PHY 633. 3(3-0), D

**PHY 643 Kinetic Theory and Statistical Mechanics**

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. May be taught concurrently with PHY 543. Cannot receive credit for both PHY 543 and PHY 643. 3(3-0), D

**PHY 653 Electromagnetic Field Theory**

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. May be taught concurrently with PHY 553. Cannot receive credit for both PHY 553 and PHY 653. 3(3-0), D

**PHY 658 Physics of Semiconductor Devices**

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. May be taught concurrently with PHY 558. Cannot receive credit for both PHY 558 and PHY 658. 3(3-0), D

**PHY 675 Quantum Mechanics**

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. May be taught concurrently with PHY 575. Cannot receive credit for both PHY 575 and PHY 675.



3(3-0), F

**PHY 691 Applied Group Theory**

Prerequisite: PHY 333. Recommended Prerequisite: PHY 533 or PHY 633; and MTH 533 or MTH 633. 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. May be taught concurrently with PHY 590. Cannot receive credit for both PHY 590 and PHY 691. 3(3-0), D

**PHY 701 Workshop on Topical Issues in Science Education**

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. Variable content course. May be repeated to a maximum of 6 hours provided the topics are different. 1-3, D

**PHY 785 Physics Laboratory for Teachers**

Prerequisite: permission. Performance and analysis of secondary laboratory experiments in physics. 3(1-4), D

**PHY 790 Seminar in Physics**

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. 2(2-0), D

**PHY 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**PHY 799 Research in Natural and Applied Sciences**

Prerequisite: permission of department head. 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. 1-6, D

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Office of the Registrar  
2011-2012 Undergraduate Catalog

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Missouri State > Office of the Registrar > Undergraduate Catalog > William H. Darr School of Agriculture

## William H. Darr School of Agriculture

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Email: [Agriculture@missouristate.edu](mailto:Agriculture@missouristate.edu)  
Website: <http://ag.missouristate.edu>  
Director: Professor W. Anson Elliott, Ph.D.

### Faculty (as of July 15, 2011)

**Professors:** Arbindra Rimal, Ph.D.; Dennis Schmitt, Ph.D., D.V.M.; Pamela Trewatha, Ph.D.; Gary W. Webb, Ph.D. Jon H. Wiggins, Ed.D.

**Research Professor:** Martin L. Kaps, Ph.D.; Wenping Qiu, Ph.D.

**Associate Professors:** Clydette M. Alsup, Ph.D.; Michael G. Burton, Ph.D.; James B. Hutter, Ph.D.

**Associate Research Professors:** Karl L. Wilker, Ph.D.; Maciej A. Pszczolkowski, Ph.D.

**Assistant Professors:** Melissa Hudson, A.B.D.; Benjamin M. Onyango, Ph.D.; Elizabeth L. Walker, Ph.D.

**Assistant Research Professor:** Chin-Feng Hwang, Ph.D.

**Senior Instructor:** Susan Webb, M.S.

**Instructors:** John Avery, M.S.; Marilyn Odneal, M.S.

**Emeritus Professors:** W. Gayle Ashley, M.S.; Ben D. Fuqua, Ph.D.; Robert F. Glenn, Ph.D.; Lyndon N. Irwin, Ph.D.; Harry R. James, Ph.D.; R. Bruce Johnson, Ph.D.; Vernon E. Renner, Ph.D.; Michael P. Roling, Ph.D.; John D. Schatz, M.S.

**Emeritus Research Professors:** James F. Moore, Jr., Ph.D.; Howard G. Townsend, Jr., Ph.D.

### Accreditation

Missouri Department of Elementary and Secondary Education (DESE) and National Council for Accreditation of Teacher Education (NCATE) – Agriculture Education, B.S.Ed., Technology Education, B.S.Ed., Secondary Education/Agriculture, M.S.Ed.

### Graduate Programs

The following graduate programs are available:

Plant Science (Master of Science); Secondary Education with option in Agriculture; and a Master of Natural and Applied Science degree with an area of emphases in Agriculture and Plant Science.

Refer to the [Graduate Catalog](#) for more information.

#### Accelerated Master of Natural and Applied Science Degree

Eligible Missouri State undergraduate students in the School of Agriculture may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). This option offers an opportunity for students 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. Refer to the Graduate Catalog for more information.

#### Accelerated Master of Science degree in Plant Science

Eligible Missouri State undergraduate students in the School of Agriculture may apply for preliminary acceptance into the Master of Science program in Plant Science after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate level courses may be counted towards both the undergraduate and graduate degrees (Mixed Credit). The courses must be in the area of economic botany, plant physiology, plant genetics, crop management systems, plant nutrition, soils, chemistry, ecology, fruit production, viticulture, enology, or ornamental plants and landscaping.

This option is tailored to those undergraduates who have acquired considerable plant science-related research experience in a laboratory. Courses to be counted toward both degrees must be identified jointly in agreement with the undergraduate advisor, the student's research mentor, and the Plant Science Program Director. This option will enable students to potentially meet the requirements for the MS in Plant Science degree within two semesters following the completion of the undergraduate degree. Refer to the Graduate Catalog for more information.

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 Office of the Registrar in Carrington Hall 320 no later than the end of the Change of Schedule Period for the semester.

## General Information

### Center for Grapevine Biotechnology

The Center explores genetic resources and identifies health-promoting compounds in diverse grapevine species for securing the profitability and sustainability of the grape and wine industry and for improving human health.

### Darr Agricultural Center

Missouri State's William H. Darr Agricultural Center, located on a 100-acre site in southwest Springfield, is a unique asset that supports the School of Agriculture's diverse programs.

Agriculture is a key economic component of the region. The food, fiber, and renewable resources that traditional agriculture provides are basics required for life. Missouri State's metropolitan location and the Darr Agricultural Center provide a unique opportunity to demonstrate the interactions between traditional agriculture's rural origin and the more urban setting of modern America. The Darr Agricultural 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.

### State Fruit Experiment Station

Mountain Grove Research Campus  
9740 Red Spring Road  
Mountain Grove, MO 65711  
Phone: (417) 926-4105, Fax: (417) 926-6656

The State Fruit Experiment Station, operated on the Mountain Grove Research Campus, 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.

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.

### Pre-Professional Curriculum in Veterinary Medicine

Students considering this program should consult with the Pre-Veterinary advisor in the School 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.

- A. General Education Requirements (43-51 hours)
- B. Science and Mathematics Requirements (38-47 hours): 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 hours): AGS 101(4), 301(3), 302(3) or 306(3), 311(3), 316(3) and 511(3); AGN 115(3) or AGP 103(3); AGN 215(3); AGB 144(4); AGR 330(3)

\*May be included in general education requirements.

## Majors

### Agricultural Business (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: CHM 105(5) or 106(4) or 107(4) or 160(4); MTH 135(3) or MTH 138(5) or higher; PSY 121(3); GEP 101(2) or UHC 110(2) or AGR 301(1)
- B. Major Requirements (58-65 hours)
  - 1. AGN 115(3) or AGP 103(3); AGN 215(3); AGB 144(4); AGB 314(3) or LAW 231(3); AGB 334(3), 354(2), 364(2), 374(3), 394(1), 494(1); AGB 514(3) or ECO 565(3) or MKT 474(3); AGB 524(3); AGB 444(2) or AGR 499(2); AGR 330(3) or QBA 237(3); AGR 490(1); ACC 201(3)
  - 2. Complete one course from: COM 315(3); MGT 286 (3); AGB 384(2)
  - 3. Complete one of the following options:
    - a. **Agricultural Enterprise Management** (18 hours):
      - 1. AGB 344(3) or 584(3); MGT 384(3)
      - 2. Complete 12 hours from one of the following groups:
        - a. Animal Science: AGS 101(4), 161(3), 301(3), 302(3), 306(3), 310(3) or 311(3), 316(3), 342(2), 346(2),

361(3), 402(2), 432(2), 442(2), 446(3), 451(3), 452(3), 461(3), 511(3); AGA 365(3) or 375(3)

b. Natural Resources: AGN 335(3), 405(3), 455(3); AGP 485(3)

c. Environmental Plant Science: AGP 303(3), 333(3), 343(3), 353(3), 363(3), 365(3), 375(3), 393(3), 403(3), 443(3), 483(3), 573(3). 575(2)

b. **Agricultural Finance and Management** (22 hours):

1. ACC 211(3); AGB 344(3), 584(3); AGS 101(4)

2. Complete two courses from: ACC 311(3); ECO 305(3); FIN 266(3), 380(3), 485(3); INS 211(3), 415(3); MGT 340(3), 345(3)

3. Complete one course from: AGN 335(3); AGP 303(3), 353(3), 483(3); AGN 365(3), 375(3), 485(3); AGR 383(3), AGS 311(3)

c. **Agricultural Marketing and Sales** (16 hours):

1. AGB 344(3) or 584(3); AGS 101(4)

2. Complete two courses from: MKT 351(3), 354(3), 355(3), 360(3); MGT 340(3) or 345(3)

3. Complete one course from: AGN 335(3); AGP 303(3), 353(3), 365(3), 375(3), 483(3), 485(3); AGR 383(3); AGS 311(3)

C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

### **Agriculture Education**

Bachelor of Science in Education  
(Certifiable grades 9-12)

A. General Education Requirements - see **General Education Program and Requirements** section of catalog

Specific General Education Requirements: BIO 102(4); CHM 105(5) or 106(4) or 107(4) or 160(4); MTH 130(3) or higher; PSY 121(3); GEP 101(2) or UHC 110(2) or AGR 301(1)

B. Major Requirements

1. AGS 101(4); AGP 103(3) or AGN 115(3); AGN 215(3), 143(3); AGN 335(3) or AGR 383(3); AGB 144(4), 334 (3); AGP 303(3) or AGP 333(3) or AGP 443(3); AGE 337(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. These courses must consist of any agriculture course not required as a major or Professional Education requirement.

C. Professional Education courses: AGE 558(3), 493(5-6), 494(5-6); and the Professional Education Required Core and Competencies - see **Teacher Certification, Teacher Education Program and Secondary Education Requirements** section of catalog

D. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree 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.

### **Animal Science (Comprehensive)**

Bachelor of Science

A. General Education Requirements - see **General Education Program and Requirements** section of catalog

Specific General Education Requirements: BIO 102(4) or 121(4); CHM 105(5) or 106(4) or 107(4) or 160(4); MTH 130(3) or higher; GEP 101(2) or UHC 110(2) or AGR 301(1)

B. Major Requirements

1. AGS 101(4), 301(3), 302(3), 310(3), 311(3), 316(3), 491(1); AGP 103(3) or AGN 115(3); AGN 215(3); AGP 365(3) or 375(3); AGB 144(4); AGR 300(3), 490(1)

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: AGR 399(1-5); AGS 161(3), 162(1), 191(2), 196(2), 262(2), 306(3), 342(2), 346(2), 361(3), 362(3), 402(3), 432(2), 442(2), 446(3), 451(3), 452(3), 461(3), 492(1-4), 511(3)

b. Group B courses: AGR 250(2), 330(3), 377(3), 383(3), 399(1-3), 499(3); AGB 314(3), 334(3), 344(3), 364(2), 384(2), 394(1), 494(1), 584(3); AGN 215(3), 335(3), 405(3)

C. General Baccalaureate Degree Requirements - see **General Baccalaureate Degree Requirements** section of catalog

### **Environmental Plant Science (Comprehensive)**

Bachelor of Science

A. General Education Requirements - see **General Education Program and Requirements** section of catalog

Specific General Education Requirements: BIO 102(4) or 121(4); CHM 105(5) or 106(4) or 107(4) or 160(4); MTH 130(3) or higher; GEP 101(2) or UHC 110(2) or AGR 301(1)

B. Core Requirements: AGP 103(3); AGN 115(3), 215(3), 405(3); AGP 453(3); AGB 144(3) or ECO 155(3); and ECO 165(3);

AGR 300(3), 490(1), 499(3)

C. Core Pest Management Requirements: AGP 483(3), 485(3); AGR 383(3)

D. Major Requirements:

1. Complete one of the following options:

**a. Horticulture (21-22 hours)**

1. AGP 104(1), 325(3), 343(3), 363(3), 393(3), 573(3)
2. Horticulture Electives: select two courses from the following: AGN 143(3); AGP 333(3), 353(3), 403(3), 433(2), 443(3); TCM 110(3) or foreign language courses 300 level or above.

**b. Crop Science (23-26 hours)**

1. AGB 144(4); AGN 335(3), 465(3)
2. Crop Production courses: select two courses from the following; AGP 343(3), 365(3), 375(3), 393(3)
3. Crop Science Electives: select three courses from the following: AGS 101(4); AGN 143(3), AGS 311(3); GRY 360(3), 363(4); or additional AGP courses 300 level or above

2. Complete one of the following emphasis areas:

**a. Business Emphasis: (11-13 hours)**

1. ACC 201(3); AGB 144(4) or ECO 155(3); and ECO 165(3); AGB 334(3) or MKT 350(3)
2. Select one course from the following: AGB 354(2), 364(2), 374(3); MGT 340(3), 384(3)

**b. Science Emphasis: (10-18 hours)** Select four courses from the following: AGN 335(3), 495(1-3), 575(3); AGR 330(3); BIO 122(4); BIO 210(3) or 310(5); BIO 235(4), 334(3), 369(4), 436(4), 544(4); CHM 352(3)

E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### General Agriculture

Bachelor of Applied Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog

B. Major Requirements

1. Associate of Science or Associate of Applied Science degree from an accredited institution. Contact the School of Agriculture for details.
2. AGP 103(3) or AGN 115(3); AGN 215(3); AGB 144(4); AGR 157(3); AGR 301(1); AGS 101(4)
3. Thirty-five credit hours of upper-division courses in agriculture

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### General Agriculture (Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: AGR 100(3); BIO 102(4) or 121(4); CHM 105(5) or 106(4) or 107(4) or 160(4); MTH 130(3) or higher; PSY 121(3); GEP 101(2) or UHC 110(2) or AGR 301(1)

B. Major Requirements

1. AGS 101(4); AGN 115(3) or AGP 103(3); AGN 215(3); AGB 144(4), AGR 157(3); AGR 300(3) or CHM 200(5)
2. Complete 3 additional hours from each of the following areas: Agriculture Business, Animal Science, Environmental Plant Science
3. Complete one of the following options:
  - a. Agricultural Communications (27-29 hours):**
    1. COM 209(3) or MED 120(3), JRN 270(3), AGR 250(2) or 499 (3-5); AGB 394(1) and 494(1)
    2. Select an additional 16 hours of courses with ENG, MED, COM, or JRN prefixes in consultation with your advisor.
  - b. Agriculture (27-29 hours):**
    1. AGB 314(3) or AGR 250(2) or AGR 499(3-5)
    2. Select 6 additional hours of Agriculture courses from each of the following areas: Agricultural Business, Animal Science, Environmental Plant Science, Natural Resources

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Natural Resources (Comprehensive)

Bachelor of Science

A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog  
Specific General Education Requirements: BIO 102(4) or 121(4); CHM 105(5) or 106(4) or 107(4) or 160(4); GLG 110(4) or GRY 135(4) or GRY 142(4); MTH 130(3) or higher; GEP 101(2) or UHC 110(2) or AGR 301(1)

B. Major Requirements

1. AGN 115(3), 215(3), 335(3), 405(3), 465(3); AGB 144(4); AGR 300(3), 490(1), 499(3); AGS 101(4)
2. Select one course from: AGP 343(3), 353(3), 365(3), 375(3), 393(3)
3. Select one course from: AGB 314(3) or 354(2)
4. Core pest management requirements: AGP 483(3), 485(3); AGR 383(3)
5. Select 6 hours from: AGN 143(3); AGP 103(3), 453(3); AGB 394(1), 494(1); GRY 360(3), 363(4)

C. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

**Wildlife Conservation and Management (Comprehensive)**

Bachelor of Science

This major is offered in cooperation with the Biology Department.

A. General Education Requirements - see [General Education Program and Requirements](#) 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. AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or 375(3); AGR 383(3); AGR 490(1); GEP 101(2) or UCH 110(2) or AGR 301(1)
- b. Select two courses (4-6 hours) from: AGB 354(2); AGP 333(3), 483(3), 485(3); AGN 351(2)

2. Biology Requirements:

- a. BIO 121(4)\*, 122(4)\*, 334(3), 339(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 prior credit for 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 [General Baccalaureate Degree Requirements](#) section of catalog

**Minors**

**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, and Field Crops
- B. Select at least one course from each of the following areas: Dairy Husbandry, Horticulture, and 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

- A. AGB 144(4), 394(1)
- B. Additional hours 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

- A. AGA 105(3)
- B. additional hours 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

- A. AGS 101(4), 311(3)
- B. additional hours from other courses in Animal Science to total at least 20 hours.

**Equine Studies**

Bachelor of Arts

Bachelor of Science

- A. AGS 101(4), 161(3), 191(2), 311(3), 461(3)

B. 6 additional hours from courses in Equine Studies to be determined by consultation with advisor.

### **General Agriculture**

Bachelor of Science

A. AGA 105(3), AGB 144(4), AGS 101(4)

B. Additional hours in Agriculture to total at least 20 hours.

### **Horticulture**

Bachelor of Science

A. AGA 105(3)

B. Additional hours 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)

## **Agricultural Business Courses**

### **AGB 144 Agricultural Economics I**

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. 4(3-2) F,S

### **AGB 314 Legal Aspects of Agriculture**

Recommended Prerequisite: 30 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. 3(3-0) F

### **AGB 334 Marketing Agricultural Products**

Recommended Prerequisite: 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. 3(2-2) F,S

### **AGB 344 Financing Agriculture**

Recommended Prerequisite: AGB 144. Capital requirements and sources and uses of each type of credit. 3(2-2) F,S

### **AGB 354 Land Economics**

Recommended Prerequisite: AGB 144. Principles and institutions affecting the allocation of land resources among uses and users. 2(2-0) F,S

### **AGB 364 Agricultural Commodity Futures and Options**

Recommended Prerequisite: AGB 334. Introduction to the economic theory, organization, and operating principles of agricultural commodity futures markets. Emphasis is placed on speculating, hedging, and investing in agricultural commodity futures contracts. 2(2-0) Su

### **AGB 374 Agricultural Business Management**

Recommended Prerequisite: 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. 3(2-2) F

### **AGB 384 Agricultural Selling**

Recommended 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. 2(2-0) F

### **AGB 394 Agricultural Industry Study**

Prerequisite: concurrent enrollment in AGB 494 for 1 credit hour; completion of 60 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. Supplemental course fee. 1(0-2) S

### **AGB 444 American Agricultural Policy**

Recommended 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. 2(2-0) S

### **AGB 494 Problems in Agricultural Business**

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. 1-3 F,S

### **AGB 514 International Agricultural Trade**

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. May be taught concurrently with AGB 614. Cannot receive credit for both AGB 614 and AGB 514. 3(2-2) D

### **AGB 524 Agricultural Prices**

Prerequisite: AGB 334. Factors influencing the level and movement of agricultural commodity prices and prices of agricultural inputs. May be taught concurrently with AGB 624. Cannot receive credit for both AGB 624 and AGB 524. 3(2-2) F,S

#### **AGB 584 Farm Business Management**

Prerequisite: AGB 144. Economic principles applied to the organization and operation of agricultural units; tools of decision-making; and factor allocation. May be taught concurrently with AGB 684. Cannot receive credit for both AGB 684 and AGB 584. 3(2-2) F,S

#### **AGB 614 International Agricultural Trade**

Recommended 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. May be taught concurrently with AGB 514. Cannot receive credit for both AGB 514 and AGB 614. 3(2-2), D

#### **AGB 624 Agricultural Prices**

Recommended Prerequisite: AGB 334. Factors influencing the level and movement of agricultural commodity prices and prices of agricultural inputs. May be taught concurrently with AGB 524. Cannot receive credit for both AGB 524 and AGB 624. 3(2-2), F,S

#### **AGB 684 Farm Business Management**

Recommended Prerequisite: AGB 144. Economic principles applied to the organization and operation of agricultural units; tools of decision-making; and factor allocation. May be taught concurrently with AGB 584. Cannot receive credit for both AGB 584 and AGB 684. 3(2-2), F,S

### **Agricultural Education Courses**

#### **AGE 318 Introduction to Agricultural Education**

Recommended Prerequisite: 30 credit hours. Building an acquaintance with the aims, philosophy, functions, opportunities and demands of agricultural education programs. 2(2-0) F

#### **AGE 337 Agricultural Mechanics Practices**

Shop processes and techniques required for the construction, repair, and maintenance of agricultural facilities and equipment. Supplemental course fee. 3(1-4) F

#### **AGE 493 Supervised Teaching (Secondary Agriculture)**

Prerequisite: completion of all methods courses in Agriculture; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for supervised teaching. Student observes then teaches agriculture 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 S

#### **AGE 494 Supervised Teaching (Secondary Agriculture)**

Prerequisite: concurrent enrollment in AGE 493. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 5-6 S

#### **AGE 498 Problems in Agricultural Education**

Prerequisite: permission of instructor. May be repeated with permission. 1-3 D

#### **AGE 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

#### **AGE 508 Teaching Adults in Vocational Education**

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. Identical with AGV 527 and SEC 527. Cannot receive credit for AGV 527 and SEC 527 and AGE 508. May be taught concurrently with AGE 608. Cannot receive credit for both AGE 608 and AGE 508. 3(3-0) D

#### **AGE 518 Agriculture Education Special Topics**

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. May be taught concurrently with AGE 628. Cannot receive credit for both AGE 628 and AGE 518. 1-3 D

#### **AGE 548 Agriculture in the Classroom**

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. May be taught concurrently with AGE 648. Cannot receive credit for both AGE 648 and AGE 548. 1(1-0) Su

#### **AGE 558 Teaching of Agriculture**

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. May be taught concurrently with AGE 658. Cannot receive credit for both AGE 658 and AGE 558. 3(3-0) S

**AGE 568 Course and Program Building in Agricultural Education**

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. May be taught concurrently with AGE 668. Cannot receive credit for both AGE 668 and AGE 568. 3(3-0) S

**AGE 578 Methods of Teaching Agricultural Management**

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. May be taught concurrently with AGE 678. Cannot receive credit for both AGE 678 and AGE 578. 2(2-0) S

**AGE 588 Methods of Teaching Agricultural Laboratory Management**

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. May be taught concurrently with AGE 688. Cannot receive credit for both AGE 688 and AGE 588. 2(1-2) S

**AGE 608 Teaching Adults in Vocational Education**

Prerequisite: permission of instructor. 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. Identical with AGV 627 and SEC 627. Cannot receive credit for AGV 627 and SEC 627 and AGE 608. May be taught concurrently with AGE 508. Cannot receive credit for both AGE 508 and AGE 608. 3(3-0), D

**AGE 628 Agriculture Education-Special Topics**

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. May be taught concurrently with AGE 518. Cannot receive credit for both AGE 628 and AGE 518. 1-3 D

**AGE 648 Agriculture in the Classroom**

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. May be taught concurrently with AGE 548. Cannot receive credit for both AGE 548 and AGE 648. 1(1-0), Su

**AGE 658 Teaching of Agriculture**

Prerequisite: SEC 302 and EDC 350 and teacher certification students must be admitted 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 be taught concurrently with AGE 558. Cannot receive credit for both AGE 558 and AGE 658. 3(3-0), S

**AGE 668 Course and Program Building in Agricultural Education**

Prerequisite: AGE 318 and AGE 658. Organization and analysis of agricultural instruction courses and programs; including the adoption of resource materials to meet individual student needs. May be taught concurrently with AGE 568. Cannot receive credit for both AGE 568 and AGE 668. 3(3-0), S

**AGE 678 Methods of Teaching Agricultural Management**

Prerequisite: AGE 318 and AGE 658. Identification, development, and utilization of supervised agriculture experience programs in Agricultural Education that includes methods of teaching program management, record keeping, and appropriate methodologies. May be taught concurrently with AGE 578. Cannot receive credit for both AGE 578 and AGE 678. 2(2-0), S

**AGE 688 Methods of Teaching Agricultural Laboratory Management**

Prerequisite: AGE 318 and AGE 658. 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. May be taught concurrently with AGE 588. Cannot receive credit for both AGE 588 and AGE 688. 2(1-2), S

**AGE 718 Topics in Agricultural Education**

Prerequisite: permission of instructor. Current developments and trends in teaching agricultural education as well as new developments in resources and techniques. May be repeated, however, only 9 hours will count towards the graduate program of study. 1-3, D

**AGE 728 Induction Year Teaching I**

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. 2(2-0), F,S

**AGE 738 Induction Year Teaching II**

Prerequisite: AGE 728. Course for the professional development of second-year teachers of agriculture. The course is a continuation of AGE 728 and focuses on the pedagogical knowledge, skills, and attitudes and managerial skills needed by beginning teachers of agriculture. 2(2-0), F,S

**Agricultural Natural Resources Courses**

**AGN 115 Sustainable Agriculture and the Environment**

This course examines the practice of agro-ecology: the interface of management, biology, and the environment in our effort to produce food, feed, and fiber for a rapidly growing human population. Consequences of historical and current practices, as well as strengths and weaknesses of alternative practices that attempt to employ more knowledge of biology and ecology, will also be evaluated. 3(3-0) S

**AGN 143 Introductory Forestry**

Introduction to field of forestry. In addition to traditional topics of species identification, biology and timber management, this course examines the sociological, environmental, political and industrial influences on domestic and international management of forest resources. 3(3-0) F,S

**AGN 215 Soils**

Recommended Prerequisite: CHM 105 or CHM 106 or CHM 107 or CHM 160. Physical, chemical and biological activities within the soil as related to moisture, temperature, drainage, and tillage. 3(2-2) F,S

**AGN 335 Soil Conservation and Water Management**

Recommended Prerequisite: AGP 103 or AGN 115 or AGN 215. The history and policies surrounding management of soil and water resources will be considered, but the majority of class time will be used addressing the processes of erosion and nutrient loss, and the practices used to conserve natural resources and sustain productivity/function of cropland, pasture, urban, and wild landscapes. 3(3-0) F,S

**AGN 351 Game Bird Production**

Production and management of quail, pheasants and other game birds. Supplemental course fee. 2(1-2) F

**AGN 405 Soil Fertility and Plant Nutrition**

Recommended Prerequisite: AGN 215. Principles of soil fertility, amendments and factors affecting nutrient availability and plant growth. May be taught concurrently with AGN 605. Cannot receive credit for both AGN 405 and AGN 605. 3(2-2) S

**AGN 455 Soil Genesis, Morphology and Classification**

Recommended Prerequisite: AGN 215. Pedogenetic processes that are responsible for genesis, morphology, and classification of the twelve orders of soil taxonomy will be covered along with interpretation of water relationships, site characteristics, soil classification and land use. May be taught concurrently with AGN 655. Cannot receive credit for both AGN 455 and AGN 655. 3(2-2) D

**AGN 465 Environmental Soil Science**

Techniques in gathering onsite soil and other field data to develop reports for nutrient and pest management plans, soil evaluations for home sewage disposal systems, storm water pollution prevention plans, log soil pits by unified soil classification for pond site investigations, and use soil survey information for crop production and conservation planning, as well as how soil survey information is used to make highly erodible land and wetland determinations. 3(2-2) S

**AGN 495 Problems in Plant Science and Natural Resources**

Prerequisite: permission of instructor. Assigned investigations, dealing with current problems in plant science and soil science supervised by an agricultural staff member. Student prepares outline, investigates sources of information concerning the subject, and summarizes the findings in a written report. May be repeated with permission. 1-3 F,S

**AGN 605 Advanced Soil Fertility**

Theoretical and applied aspects of soil fertility emphasizing ion transport, nutrient availability, and root absorption in soils-plant environments. May be taught concurrently with AGN 405. Cannot receive credit for both AGN 605 and AGN 405. 3(2-2), S

**AGN 655 Soil Genesis, Morphology and Classification**

Recommended Prerequisite: AGN 465. Pedogenetic processes, macromorphology, micromorphology, redoximorphic features, and classification as related to soil taxonomy, with GIS applications for use of soil survey information discussed, if time allows. May be taught concurrently with AGN 455. Cannot receive credit for both AGN 655 and AGN 455. 3(2-2), D

**AGN 725 Advanced Soils Interpretations**

Recommended Prerequisite: AGN 465. Field interpretation of physical and chemical properties, water relationships, and soil landscape relationships. 3(2-3), D

## Agricultural Plant Science Courses

**AGP 103 Plant Science**

An introduction to the fascinating world of plant science and plant physiology including the areas of food and ornamental crops and sustainable agriculture. 3(3-0) F

**AGP 104 Plant Science Laboratory**

Prerequisite: AGP 103 or concurrent enrollment or permission of instructor. Provides opportunities for 'hands-on' application of concepts of plant science through the use of basic plant science research and production practices. 1(0-2) F

**AGP 121 Introduction to Wine**

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. 2(2-0) S

**AGP 300 Wine Appreciation for Consumers**

Must be 21 years of age or older. Students participate in a series of tastings designed to introduce them to the major wine types and the range of styles within those types. Tests and other materials will be available online. Supplemental course fee. 1(1-0) S, D

**AGP 303 Suburban Horticulture**

Recommended Prerequisite: AGP 103 or AGN 115 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 the Environmental Plant Science major or Horticulture minor. 3(3-0) S

**AGP 325 Herbaceous Plants**

Recommended Prerequisite: AGP 103 or AGN 115 or BIO 102 or BIO 121. Nomenclature, identification, characteristics and cultural requirements of indoor and outdoor herbaceous ornamental plants. 3(2-2) F

**AGP 333 Landscape Design**

Theory and practice of landscaping including elementary design. 3(2-2) F,S

**AGP 343 Vegetable Production**

Recommended Prerequisite: AGP 103 or AGN 115 or BIO 102 or BIO 121. Methods and practices of home and commercial vegetable production with an emphasis on using environmentally-friendly production and maintenance techniques to optimize yield and quality of vegetables. The purpose of this course is to familiarize students with the basic practices required to successfully produce a wide variety of vegetables. 3(3-0) S

**AGP 353 Turf Science**

Recommended Prerequisite: AGP 103 or BIO 102 or BIO 121. A scientific approach to the physiology of turfgrass in response to the environment, and the selection, establishment, maintenance and pest management relevant to utility, lawn and sports turf. 3(3-0) S

**AGP 363 Landscape Plants**

Recommended Prerequisite: AGP 103 or BIO 102 or BIO 121. Identification, classification and adaptation of common trees, shrubs and groundcovers used for landscape purposes. 3(2-2) F

**AGP 365 Grain Crops for Food, Feed and Energy**

Prerequisite: AGP 103 or AGN 115. Adaptation, production, and utilization of the major grain crops for human and animal (livestock and wildlife) consumption and energy production. 3(3-0) F

**AGP 375 Forage Crops for Animals and the Environment**

Prerequisite: AGP 103 or AGN 115. Adaptation, production and utilization of the major forage crops for grazing, hay, and silage production, as well as their effects on environmental quality and wildlife. 3(3-0) S

**AGP 393 Fruit Production**

Recommended Prerequisite: AGP 103 or BIO 102 or BIO 121. The culture and management of tree fruit, grapes, strawberries and other small fruit. Nuts, tropical and subtropical fruits, sustainable management, and production technology are also addressed. May be taught concurrently with AGP 701. Students cannot receive credit for both AGP 393 and AGP 701. 3(3-0) F

**AGP 403 Nursery Management**

Recommended Prerequisite: AGP 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. 3(2-2) FO

**AGP 433 Advanced Landscape Design**

Prerequisite: AGP 333; and AGP 325 or AGP 363. Concepts and development of sustainable landscapes for residential, commercial and government land, including rain gardens, green roofs, riparian buffer zones, prairie and wetlands, plus more in-depth coverage of specialized landscape areas such as water gardens and Japanese-style gardens. Training in use of landscape design 2D/3D software is included. 2(2-0) FE

**AGP 443 Greenhouse Management**

Recommended Prerequisite: AGP 103. Factors involved in site selection, construction, and management of greenhouses and high tunnels, and production and management of floriculture crops. Sustainable production methods are emphasized. Supplemental course fee. 3(2-2) S

**AGP 453 Crop Physiology**

Recommended Prerequisite: AGP 103 or BIO 102; 3 hours additional AGP or BIO plant courses. General, stress-related and post-harvest physiology of horticulture and agronomic crops in relationship to their environments. 3(3-0) SE

**AGP 483 Plant Pathology**

Recommended Prerequisite: 9 hours of plant science. Diseases and physiological disorders of fruit, vegetables, agronomic crops and ornamental plants. Emphasis is placed on the interactions between plants and pathogenic organisms, on environmental factors that cause plant diseases, and on disease control methods that reduce or eliminate the need for chemical applications. Students will gain insight into the techniques to manage plant diseases, and the impact plant diseases have on humans and the environment. 3(2-2) F

**AGP 485 Weed Science**

Recommended Prerequisite: AGP 103 or AGN 115 or AGN 365 or AGN 375; and either BIO 102 or BIO 121; and either CHM 105 or CHM 106 or CHM 107 or CHM 160. Identification, physiology and impacts of invasive plants and crop weeds and methods for their control in natural and agroecosystems. 3(2-2) F

**AGP 496 Independent Study in Fruit Science**

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. 1-3 D

**AGP 513 Insects Affecting Horticulture and Forestry Crops**

Prerequisite: permission of instructor. Identification, life histories and control methods of insects affecting gardens, ornamental plants, orchards and forests. May be taught concurrently with AGP 613. Cannot receive credit for both AGP 513 and AGP 613. 3(1-4) F

**AGP 573 Plant Propagation**

Recommended Prerequisite: AGP 103 or BIO 102 or BIO 121; CHM 105 or CHM 106 or CHM 107 or CHM 160. Practices employed by fruit and ornamental plant producers in propagation of plants, including seeds, cuttings, layerings, grafting and micropropagation. Supplemental course fee. May be taught concurrently with AGP 643. Cannot receive credit for both AGP 573 and AGP 643. 3(2-2) SO

**AGP 575 Plant Breeding and Genetics**

Recommended Prerequisite: AGP 103 or AGN 115. Application of genetic principles to the improvement of crop plants. Includes self-pollinated, cross-pollinated, and asexually-propagated crops. May be taught concurrently with AGP 675. Cannot receive credit for both AGP 575 and AGP 675. 2(2-0) S

**AGP 613 Insects Affecting Horticulture and Forestry Crops**

Prerequisite: permission of instructor. Identification, life histories and control methods of insects affecting gardens, ornamental plants, orchards and forests. May be taught concurrently with AGP 513. Cannot receive credit for both AGP 613 and AGP 513. 3(1-4) F

**AGP 643 Plant Propagation**

Recommended Prerequisite: AGP 103; and AGN 115 or BIO 121; and CHM 105 or CHM 106 or CHM 107 or CHM 160. Practices employed by fruit and ornamental plant producers in propagation of plants, including seeds, cuttings, layerings, grafting and micropropagation. Supplemental course fee. May be taught concurrently with AGP 573. Cannot receive credit for both AGP 643 and AGP 573. 3(2-2) SO

**AGP 675 Plant Breeding and Genetics**

Recommended Prerequisite: AGP 103 or AGN 115. Application of genetic principles to the improvement of crop plants. Includes self-pollinated, cross-pollinated, and asexually-propagated crops. May be taught concurrently with AGP 575. Cannot receive credit for both AGP 675 and AGP 575. 2(2-0) S

**AGP 700 Plant Science Colloquium**

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. 1(1-0), F,S,Su

**AGP 701 Advanced Pomology**

Prerequisite: 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 AGP 393. Students cannot receive credit for both AGP 701 and AGP 393. 3(3-0), F

**AGP 711 Viticulture**

Recommended Prerequisite: BIO 644. 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. 3(3-0), S

**AGP 721 Enology**

Recommended Prerequisite: BIO 310. The course will study the chemistry, microbiology, and technology of modern wine production. 3(3-0), S

**AGP 722 Enology Lab**

Prerequisite: AGP 721. Laboratory techniques in assessing wine production methods and quality. 2(0-4), F

**AGP 730 Advanced Topics in Plant Science**

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. Variable content course. May be repeated to a total of 6 hours with differing topics. 3(3-0), F

**AGP 731 Plant Genetic Engineering**

Prerequisite: permission of instructor. 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. 3(3-0), S

**AGP 753 Plant Stress Physiology**

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. 3(3-0), D

**AGP 773 Plant Growth Regulation**

Prerequisite: permission of instructor. The role of natural and synthetic plant hormones and related compounds in the growth, reproduction and cultivation of plants. 3(3-0), D

## Agriculture (General) Courses

**AGR 100 Technologys Impact on Society**

General Education Course (Culture and Society/Social Sciences Perspectives). Technological progress of agriculture and industry and its socio-economic impact in a global environment. 3(3-0) F,S

**AGR 108 Topics in Agriculture**

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. 1(1-0) F,S

**AGR 110 Agriculture Orientation**

Introduction to the educational opportunities, facilities, services, and activities with specific emphasis toward the Department of Agriculture. Course designed for students interested in Agriculture. 1(1-0) F,S

**AGR 118 Leadership**

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. 1(1-0) F

**AGR 157 Principles of Agricultural Mechanization**

Engineering and mechanical principles; their application to agriculture equipment, systems and concepts. 3(3-0) F,S

**AGR 200 Mini Agriculture**

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. 1(1-0) D. Approved recurring course topic: Floral Design I. Basic concepts and elements of floral design. Specific emphasis on aesthetics, color, shape, space and texture. Supplemental course Fee. 1(1-0) D. Approved recurring course topic: Floral Design II. 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. Supplemental course Fee. 1(1-0) D. Approved recurring course topic: Home and Garden Insects. Basic concepts of pest control appropriate for residences and businesses. 1(1-0) D. Approved recurring course topic: Rodeo Techniques. Provide students with an appreciation for and general knowledge of rodeo history, events, organizations, economic impact on today's society and future direction. 1(1-0) D

**AGR 250 Agricultural Communications**

Recommended Prerequisite: ENG 110 and COM 115. Introduces the scope and applications of communications and journalism as they relate to agriculture. 2(2-0) S

**AGR 299 Special Topics**

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. 1-5 D

**AGR 300 Food and Agricultural Chemistry**

Prerequisite: CHM 105 or CHM 160. Chemistry, sources and importance of biological materials used for food, fiber, and feed for man and domestic animals. 3(3-0) F,S

**AGR 301 Agriculture Transfer Student Orientation**

An integrative experience which addresses public affairs issues and individual choices promoting academic success for first semester School of Agriculture transfer students. Required of all sophomore, junior, and senior transfer students during their first two semesters at Missouri State who have not taken GEP 101/UHC 110. 1(1-0) F,S

**AGR 313 Beekeeping**

Prerequisite: permission of instructor. Fundamentals needed for the amateur to establish and maintain honey bees and produce a surplus honey crop. 2(1-2) D

**AGR 320 Writing II: Writing in the Applied Sciences**

Prerequisite: ENG 110 and 45 credit hours. General Education Course (Basic Required Courses). Strategies for accessing information. Writing proposals, progress reports, final reports, manuals, and online documents for the Applied Sciences. 3(3-0) F,S

**AGR 330 Statistical Applications in Agriculture**

Recommended Prerequisite: 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, MTH 340, PSY 200, QBA 237, REC 328, SOC 302. 3(2-2) F,S

**AGR 357 Agricultural Power**

Recommended Prerequisite: MTH 130 or higher. Principles of operation, construction and utilization of power units. 3(2-2) F

**AGR 367 Agricultural Machinery**

Recommended Prerequisite: MTH 130 or higher. Principles of construction, operation, selection and utilization of farm field equipment. 3(2-2) S

**AGR 377 Agricultural Structures and Systems**

Recommended Prerequisite: MTH 130 or higher. Functional and structural design of unified structures and systems for agricultural enterprises. 3(2-2) S

**AGR 383 Applied Entomology**

Principles of insect life; careful study of a number of common insect pests, their identification and control. 3(2-2) F,S

**AGR 399 Special Topics**

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. Supplemental course fee (variable by section). 1-5 D. Approved recurring course topic: Agriculture and Water Quality. 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. 1(1-0) D. Approved recurring course topic: Events Management. Specific tasks of organization, marketing, and managing resources for special events. 1(1-0) D. Approved recurring course topic: Principles of Horseshoeing. Horseshoeing techniques including safe use of tools and handling of horses. Supplemental Course Fee. 1(1-0) D. Approved recurring course topic: Therapeutic Riding. Recommended Prerequisite: 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. 3(0-6), S

**AGR 490 Agronomy/Horticulture Senior Seminar**

Recommended Prerequisite: 90 credit hours. Presentation, discussions and analysis of professional and technical topics in Agronomy and Horticulture. 1(1-0) F,S

**AGR 499 Internship in Agriculture**

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. 1-8, D Approved recurring course topic: Internship-Equine. 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. 1-8, D. Approved recurring course topic: Internship-Horticulture. 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. 1-8, D

**AGR 790 Introduction to Agricultural Research Methods**

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. 3(3-0), D

**AGR 796 Science Internship**

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. 1-6 F,S,Su

**AGR 797 Seminar**

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. 1(1-0), D

**AGR 798 Research**

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. 1-6, F,S,Su

**AGR 799 Thesis**

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. 1-6, F,S,Su

## Animal Science Courses

**AGS 101 Animal Science**

Introduction to farm animal industries, breeds, numbers, distribution, nutrition, heredity, reproduction, health and products. 4(4-0) F,S

**AGS 161 Introduction to Horses**

Scope and role of the horse industry. Responsibilities of ownership; selection, breeds-development and uses; basic care-nutrition, health care, conditioning; and facilities. 3(2-2) F

**AGS 162 Introduction to Riding**

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. Supplemental course fee. 1(0-2) F,S,Su

**AGS 191 Evaluation and Performance Appraisal of Horses**

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 judgments. 2(0-4) D

**AGS 196 Dairy and Meat Animal Evaluation**

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. 2(0-4) F

**AGS 262 Riding for Horse Training**

Prerequisite: AGS 162. 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. Supplemental course fee. 2(0-4) F,S

**AGS 301 Physiology of Farm Animals**

Recommended 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. 3(3-0) S

**AGS 302 Reproductive Physiology**

Recommended Prerequisite: 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. Supplemental course fee. 3(2-2) S

**AGS 306 Veterinary Science**

Recommended Prerequisite: AGS 101. Functional anatomy, diseases and parasites of farm animals; sanitation; disease prevention and control. 3(3-0) F

**AGS 310 Animal Nutrition**

Recommended Prerequisite: AGS 101; and CHM 105 or CHM 106 or CHM 107 or CHM 160. Key topics include the basic fundamentals of nutrition and comparative nutrition of farm animals. Anatomy and physiology of the digestive system and basic metabolism will also be covered along with the characteristics, digestion and functions of the basic nutrients. 3(3-0) F

**AGS 311 Feeds and Feeding**

Recommended Prerequisite: AGS 101 and AGS 310; and MTH 130 or higher. Feed composition and formulation of livestock rations. 3(3-0) F,S

**AGS 316 Animal Breeding**

Recommended Prerequisite: AGS 101 and MTH 102 or higher. Principles of heredity applied to the improvement of farm animals; variation, selection, inbreeding and crossbreeding. 3(2-2) F

**AGS 342 Meat Science and Products**

Recommended Prerequisite: AGS 101 and either CHM 105 or CHM 160. Processing, inspection, grading, preservation and nutritive value of meats and meat products. 2(1-2) F

**AGS 346 Dairy Products**

Recommended Prerequisite: AGS 101 and either CHM 105 or CHM 160. Processing, inspection, grading, preservation and nutritional value of dairy products. 2(1-2) S

**AGS 361 Horse Management and Training**

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. 3(2-2) S,Su

**AGS 362 Riding Instruction**

Prerequisite: AGS 162. 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. Supplemental course fee. 2(0-4) S

**AGS 396 Advanced Dairy and Meat Animal Evaluation**

Recommended Prerequisite: 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. 2(0-4) S

**AGS 402 Applied Reproductive Techniques**

Recommended Prerequisite: 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. Supplemental course fee. 2(1-2) F,S

**AGS 432 Sheep and Goat Science**

Recommended Prerequisite: AGS 311. Applications of the principles of nutrition, physiology and genetics to sheep and goat management. Wool and mohair production. 2(2-0) D

**AGS 442 Swine Science**

Recommended Prerequisite: AGS 311. Applications of the principals of nutrition, physiology and genetics of swine management. 2(2-0) F

**AGS 446 Dairy Production**

Recommended Prerequisite: 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. 3(2-2) FE

**AGS 451 Poultry Science**

Recommended Prerequisite: AGS 101. Broiler production, market turkey production, egg production and processing of poultry products. 3(3-0) F

**AGS 452 Beef Cattle Production**

Recommended Prerequisite: AGS 101. Production and management of purebred and commercial beef cattle. Supplemental course fee. 3(2-2) S

**AGS 461 Light Horse Production**

Recommended Prerequisite: AGS 101 and BIO 102. Breeding; housing; management of horses for pleasure and for profit. 3(3-0) S

**AGS 492 Problems in Animal Science**



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. 1-3 F,S

**AGS 511 Animal Nutrition and Metabolism**

Prerequisite: Recommended: AGR 300 or CHM 200 or CHM 310. Utilization and metabolism of nutrients by domestic animals; role of vitamins and minerals. May be taught concurrently with AGS 611. Cannot receive credit for both AGS 611 and AGS 511. 3(3-0) S

**AGS 611 Animal Nutrition and Metabolism**

Recommended Prerequisite: AGR 300 or CHM 200 or CHM 310. Utilization and metabolism of nutrients by domestic animals; role of vitamins and minerals. May be taught concurrently with AGS 511. Cannot receive credit for both AGS 511 and AGS 611. 3(3-0), S

**AGS 712 Special Topics in Animal Science**

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. 1-3, D

**AGS 716 Mammalian Reproductive Physiology**

Recommended Prerequisite: 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. 3(3-0), S

## Technology Education Courses

**AGT 416 Principles of Teaching Industrial Education**

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. 3(3-0) F

**AGT 420 Technology Education for the Classroom**

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. 2(1-2) F

**AGT 493 Supervised Teaching (Secondary Technology)**

Prerequisite: completion of all method courses in Technology; a grade of "C" or better in all professional education courses; current pre-professional liability insurance; and approval for student teaching. Student observes then teaches industrial technology 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. Course will not count toward the major GPA. Supplemental course fee. 6 S

**AGT 494 Supervised Teaching (Secondary Technology)**

Prerequisite: concurrent enrollment in AGT 493. 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. In order to receive a grade in this course, the student's professional portfolio must meet or exceed final criteria. The course will not count toward the major GPA. Supplemental course fee. 6 S

**AGT 499 Clinical Experiences in Teaching II**

Prerequisite: EDC 199; and admitted to Teacher Education Program; and grades of "C" or better in all professional education courses; and completion of portfolio checkpoints 1 and 2; and current pre-professional liability insurance; and program approval. 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, COM 493, ECE 499, ELE 499, ENG 434, FCS 498, HST 499, MCL 491, MID 499, MTH 496, MUS 499, PED 498, SCI 499, SEC 499, SPE 499, THE 493. Supplemental course fee. 4 F,S

**AGT 521 Selection and Organization of Industrial Education**

Prerequisite: AGT 416 or concurrent enrollment; and AGT 420 or concurrent enrollment. 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. May be taught concurrently with AGT 621. Cannot receive credit for both AGT 621 and AGT 521. 3(3-0) F

**AGT 621 Selection and Organization of Industrial Education**

Prerequisite: AGT 416 or concurrent enrollment; and AGT 420 or concurrent enrollment. 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 taught in same semester as AGT 416 and AGT 420. Identical with



AGV 621. Cannot receive credit for both AGT 621 and AGV 621. May be taught concurrently with AGT 521. Cannot receive credit for both AGT 521 and AGT 621. 3(3-0), F

## Agricultural Vocational Courses

### **AGV 520 Occupational Analysis**

Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. Identical with BSE 520. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with AGV 620. Cannot receive credit for both AGV 620 and AGV 520. 1-2 D

### **AGV 521 Selection and Organization of Industrial Education**

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. Identical with AGT 521. Cannot receive credit for both AGV 521 and AGT 521. May be taught concurrently with AGV 621. Cannot receive credit for both AGV 621 and AGV 521. 3(3-0) D

### **AGV 522 Philosophy of Vocational Education**

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. Identical with SEC 522 and BSE 522. May be repeated to a maximum of 3 credit hours when topic varies. May be taught concurrently with AGV 622. Cannot receive credit for both AGV 622 and AGV 522. 1-3 D

### **AGV 523 Guidance for Vocational Development**

Materials, procedures, and problems involved in the guidance of individuals in the selection of, preparation for, and advancement in a vocation. Identical with BSE 523. May be repeated to a total of 3 hours when topics varies. May be taught concurrently with AGV 623. Cannot receive credit for both AGV 623 and AGV 523. 1-3 D

### **AGV 525 Organization and Management in Vocational Education**

A systematic approach to defining and measuring occupational knowledge, skills and attitudes based upon an occupational analysis, instructional methodology, evaluation, and program standards. May be taught concurrently with AGV 625. Cannot receive credit for both AGV 625 and AGV 525. 3(3-0) D

### **AGV 526 Coordination of Cooperative Education**

Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Identical with BSE 526 and SEC 526. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with AGV 626. Cannot receive credit for both AGV 626 and AGV 526. 1-2 D

### **AGV 527 Teaching Adults in Vocational Education**

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. Identical with AGE 508 and SEC 527. Cannot receive credit for AGV 527 and AGE 508 and SEC 527. May be taught concurrently with AGV 627. Cannot receive credit for both AGV 627 and AGV 527. 3(3-0) D

### **AGV 528 Measurement and Evaluation of Vocational Education Programs**

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. Identical with BSE 528 and SEC 528. May be repeated to a total of 3 hours with departmental approval when topic varies. May be taught concurrently with AGV 628. Cannot receive credit for both AGV 628 and AGV 528. 1-3 D

### **AGV 576 Teaching of Industrial/Vocational Subjects**

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. May be taught concurrently with AGV 676. Cannot receive credit for both AGV 676 and AGV 576. 3(3-0) D

### **AGV 620 Occupational Analysis**

Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. Identical with BSE 620. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with AGV 520. Cannot receive credit for both AGV 520 and AGV 620. 1-2, D

### **AGV 621 Selection and Organization of Industrial Education**

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. Identical with AGT 621. Cannot receive credit for both AGV 621 and AGT 621. May be taught concurrently with AGV 521. Cannot receive credit for both AGV 521 and AGV 621. 3(3-0), D

### **AGV 622 Philosophy of Vocational Education**

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. Identical with SEC 622 and BSE 622. May be repeated to a maximum of 3 credit hours when topic varies. May be taught concurrently with AGV 522. Cannot receive credit for both AGV 522 and AGV 622. 1-3, D

### **AGV 623 Guidance for Vocational Development**

Materials, procedures, and problems involved in the guidance of individuals in the selection of, preparation for, and advancement in a vocation. Identical with BSE 623. May be repeated to a total of 3 hours when topics varies. May be taught concurrently with AGV 523. Cannot receive credit for both AGV 523 and AGV 623. 1-3, D

### **AGV 625 Organization and Management in Vocational Education**

A systematic approach to defining and measuring occupational knowledge, skills and attitudes based upon an occupational

analysis, instructional methodology, evaluation, and program standards. May be taught concurrently with AGV 525. Cannot receive credit for both AGV 525 and AGV 625. 3(3-0), D

**AGV 626 Coordination of Cooperative Education**

Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Identical with BSE 626 and SEC 626. May be repeated to a total of 2 hours when topic varies. May be taught concurrently with AGV 526. Cannot receive credit for both AGV 626 and AGV 526. 1-2 D

**AGV 627 Teaching Adults in Vocational Education**

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. Identical with AGE 608 and SEC 627. Cannot receive credit for AGV 627 and AGE 608 and SEC 627. May be taught concurrently with AGV 527. Cannot receive credit for both AGV 527 and AGV 627. 3(3-0), D

**AGV 628 Measurement and Evaluation of Vocational Education Programs**

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. Identical with BSE 628 and SEC 628. May be repeated to a total of 3 hours with departmental approval when topic varies. May be taught concurrently with AGV 528. Cannot receive credit for both AGV 528 and AGV 628. 1-3, D

**AGV 676 Teaching of Industrial/Vocational Subjects**

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. May be taught concurrently with AGV 576. Cannot receive credit for both AGV 576 and AGV 676. 3(3-0), D

**AGV 724 Organization and Administration of Vocational Education**

Prerequisite: permission of instructor. Problems, procedures and local, state and federal relationships in the organization and administration of vocational education in the contemporary school. Identical with SFR 724. May be repeated to a total of 3 hours when topic varies. 1-3, D

**AGV 726 Seminar in Industrial Education**

Prerequisite: permission of instructor. Presentation and discussion of professional or technical problems in the organization and management of programs and facilities in industrial education. 3(3-0), D

**AGV 760 Special Investigations**

Prerequisite: permission of instructor. 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. 1-5, D

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## Additional Academic Units

### Academic Units

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- [Honors College](#)
- [Interdisciplinary Studies](#)
- [Library Science, Department of](#)
- [Missouri State Outreach](#)

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Missouri State > Office of the Registrar > Undergraduate Catalog > Additional Academic Units > Global Studies Program

## Global Studies Program

Website: <http://www.missouristate.edu/mcl/globalstudies.htm>

Administrator: College of Arts and Letters

### General Information

**Administration of the Program:** The program is administered by the College of Arts and Letters.

**Program Advisors:** Dr. Madeleine Hooper, Associate Dean, College of Arts and Letters; Dr. Stephen C. Berkwitz, Department of Religious Studies; and Dr. Victor Matthews, Dean, College of Humanities and Public Affairs.

Global Studies can broadly be defined as the study of global issues (i.e., population growth, poverty, diseases, environmental degradation, conflicts) and trends such as globalization and interdependence in their economic, political cultural and social dimensions, area studies, and the acquisition of foreign languages skills. As such, students pursuing a major in Global Studies and, for example, a minor in Area Studies, will become familiar with these issues, trends, and areas, and strive to acquire a high level of proficiency in a foreign language. More broadly, it means understanding the increasingly global nature of every aspect of life and how this affects the local environment in the United States as well as in other countries.

### Majors

#### Global Studies (Non-Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major Requirements (45-51 hours)
  1. GBL 250(3)
  2. Complete four of the following courses: ANT 100(3); ECO 155(3); GRY 100(3); HST 200(3); PLS 232(3), REL 210(3); SOC 150(3)
  3. Complete 15 hours in one of the following focus areas, with courses with at least four different course prefixes:
    - a. Language and Culture: ANT 226(3), 280(3), 310(3), 320(3), 380(3), 490(3)\*; COM 360(3); ENG 283(3); GRY 320(3); IDS 397(3)\*; MCL 550(3)\*; MUS 239(3); PHI 115(3), 342(3)
    - b. Business and Economics: AGB 514(3); AGR 100(3); ECO 346(3), 456(3), 565(3); FIN 582(3); GRY 308(3), 321(3); HST 340(3); IDS 397(3)\*; MCL 550(3)\*; MGT 447(3); MKT 474(3); PHI 342(3)
    - c. Politics, Society and Environmental Issues: CRM 420(3); ECO 540(3); GRY 108(3), 316(3), 322(3), 323(3), 351(3), 535(3); HST 200(3); IDS 397(3)\*; MCL 550(3)\*; PHI 302(3), 342(3); PLS 205(3), 232(3), 330(3), 437(3), 535(3), 546(3), 555(3), 561(3), 565(3); SOC 305(3), 336(3),  
\*When applicable
  4. Complete 15 hours in Regional Studies with at least one course in each of the following five regions. The following courses may apply to various regions depending upon course content: ANT 330, ENG 362, or GRY 305.
    - a. Africa: ANT 332(3); ART 273(3)\*, 386(3); ENG 363(3); GRY 507(3); HST 323(3), 335(3); PLS 550(3)
    - b. Asia: ART 274(3), 374(3); HST 381(3), 571(3); LLT 215(3); PHI 314(3); PLS 545(3); REL 355(3), 360(3)
    - c. Europe: ART 272(3); ENG 361(3); HST 350(3), 353(3), 355(3), 361(3), 559(3); LLT 225(3); PLS 343(3), 547(3); REL 340(3)
    - d. Latin America and Caribbean: ANT 331(3); ART 273(3)\*, 385(3), 485(3); HST 350(3), 587(3), 588(3); PLS 548(3)
    - e. Middle East: ANT 335(3); ART 382(3); HST 370(3), 371(3), 543(3); PLS 544(3); REL 330(3), 350(3)  
\*ART 273 may satisfy only one requirement in the major, either Africa or Latin America/Caribbean region.
  5. Complete six hours beyond the 12-hour Bachelor of Arts foreign language requirement, for a total of 18 hours in one modern foreign language: Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Portuguese, Russian, or Spanish. Other modern languages may be accepted upon the recommendation of the Head of the Modern and Classical Language department. The language requirement and language courses may partially or fully be fulfilled with courses taken as part of study-away programs or at another American university or college. Students also have the opportunity to acquire proficiency certificates reflecting their level of foreign language competency and, according to their level, will be able to test out of part or all foreign language requirements.
- C. Minor Required (or second major). Note: No more than nine hours may count toward both the major and a minor.
- D. Double Majors: Students wishing to pursue the Global Studies major and another major (no minor required) may only count up to nine hours in both majors.
- E. Specific Requirements for Bachelor of Arts Degree - see [Degrees, Programs and Requirements](#) section of catalog
- F. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Global Studies Courses

**GBL 250 Introduction to Global Studies and Globalization**

Provides students with the basic elements of global studies in order to make them educated persons who have a global awareness; and familiarizes them with the various trends or dimensions of globalization by focusing on geographic, cultural, political, and economic aspects of globalization. 3(3-0) F,S

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## Honors College

University Hall, Room 115, Phone: (417) 836-6370, Fax: (417) 836-6372  
Email: [HonorsCollege@missouristate.edu](mailto:HonorsCollege@missouristate.edu)  
Website: <http://www.missouristate.edu/honors>  
Director: Professor Arthur L. Spisak, Ph.D.

### General Information

#### Membership

- A. Membership is offered to all presidential and governors scholars and other students 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 or have a high school GPA of 3.90 or higher. 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 Director will review eligibility at the end of each semester. Members should normally carry no more than two honors classes in any one semester, and must take at least one honors class in each regular semester until they have completed the general honors requirements. 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 honors.
- B. Students (including transfer students) may apply to the Honors College for admission no later than the first semester of their sophomore year. Application must be made through the Honors College office and will include an essay describing the student's academic and vocational goals and how the student perceives the Honors College as facilitating the attainment of those goals. An interview may be required. Such students will be advised on an individual basis as to requirements and make-up courses in order to qualify for college membership and graduation in the Honors College. Late entering students 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 Director for individual advice on entering the Honors College at Missouri State.
- C. First semester freshmen who do not achieve the required grade point average of 3.25 will be given until the end of that academic year 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, however, might be taken on a Pass/Not Pass basis upon recommendation of the department and approval of the Director of the Honors College.
- 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 Honors." Descriptions of general honors and departmental honors follow.
- D. General Honors
  1. Freshman Honors Seminar: All students entering the Honors College must take the Freshman Honors Seminar. This is a two-semester-hour seminar offered every fall semester. It is designed to introduce the honors student to the program 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 five semesters 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. **In addition, prior to graduation, students must take one three-hour course that fulfills a public affairs requirement as defined below, item #3.** Normally, students should schedule at least one honors course each semester.
  3. To fulfill the public affairs three-hour requirement Honors College students can choose from the following options:
    - a. An approved study away course of at least 3 hours credit
    - b. An approved service-learning course of at least 3 hours credit
    - c. An approved research project that relates to Public Affairs of at least 3 hours credit to be directed by a faculty member
    - d. An approved honors component course of at least 3 hours credit in the student's major that relates to Public

Affairs

- e. An approved honors course of at least 3 hours which has content related to Public Affairs
- 4. Students who are not members of the Honors College may be allowed to enroll in honors courses provided they have both a 3.25 cumulative GPA and permission of the Director.
- 5. Honors College students who complete the Freshman Honors Seminar, the general honors curriculum, and who maintain the 3.25 GPA will qualify for graduation in the Honors College 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 Honors

- 1. Departmental Honors Offerings: Each department that wishes to participate in Departmental Honors must require as part of its degree that honors students take at least 12 hours of departmental honors offerings, which include the senior project. Each departmental offering, once approved by the Director, will be designated as an honors course on the student's transcript. These offerings may take the following forms:

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 Director 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 Director, be added to a regular course or section to recognize honors work (e.g., ART 272, 3 semester hours, becomes ART 272, 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 Director of the Honors College for final approval.

Honors senior project. An existing upper level course in the major that lends itself to a senior project (e.g., senior seminars, research seminars).

- 2. 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 department head and the Director of the Honors College. This project can be started no earlier than the first semester of the junior year and must be completed before graduation. The Honors College 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 Director 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 Director 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 Director.

- 3. Diplomas and transcripts of those students who complete both general honors and departmental honors 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 Director of the Honors College.
- 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

General Education Course (Basic Required Courses). 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. Satisfies the First-Year Foundations requirement in the Basic Required Courses of General Education. Open to Honors College members only. Variable content course. 2(2-0) F

### UHC 410 Senior Honors Seminar

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. 3(3-0) D





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## Interdisciplinary Studies

University Hall, Room 115, Phone: (417) 836-8346, Fax: (417) 836-6372

Email: [StudentSuccess@missouristate.edu](mailto:StudentSuccess@missouristate.edu)

Website: <http://www.missouristate.edu/ugp/10995.htm>

Administrator: Rachelle Darabi, Ph.D., Associate Provost for Student Development and Public Affairs

### Program Requirements and Restrictions

#### Individualized Major (Bachelor of Arts or Bachelor of Science)

The individualized major is intended for students with a clear sense of direction, motivation and strong concept of an educational program that will best serve the individual's needs. This major shall be described individually, specifying the area(s) of emphasis.

#### Procedures for Seeking Candidacy

1. Complete the following General Education Basic Required Courses: GEP 101/UHC 110, CIS/CSC 101 or CSC 111, COM 115, ENG 110, MTH 130 or higher, and PED 100.
2. Apply through the Academic Assistance Office, University Hall, room 122, for admission to an individualized major.
  1. The student shall submit to the Academic Assistance Office 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.
  2. A student accepted to pursue an individualized major is assigned, by the Academic Assistance Office, 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 the major advisor.
  3. It shall be the responsibility of this advisory committee to approve the student's degree 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 Academic Assistance Office for final approval
3. A minimum of 25 credit hours must be completed after the advisory committee has approved the degree program.
4. 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.

### Majors

#### Individualized Major (Comprehensive)

Bachelor of Arts

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major of not less than 45 hours with not less than 15 hours of upper division credit
- C. Senior Project: IDS 499(0)
- D. Specific Requirements for Bachelor of Arts degree - see [Degrees, Programs and Requirements](#) section of catalog
- E. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

#### Individualized Major (Comprehensive)

Bachelor of Science

- A. General Education Requirements - see [General Education Program and Requirements](#) section of catalog
- B. Major of not less than 45 hours with not less than 15 hours of upper division credit
- C. Senior Project: IDS 499(0)
- D. General Baccalaureate Degree Requirements - see [General Baccalaureate Degree Requirements](#) section of catalog

### Interdisciplinary Studies Courses

#### IDS 101 Interdisciplinary Seminar

Variable content, variable credit course that is offered only in the summer term and only to the participants of Missouri State University summer academies. 1-3 Su

#### IDS 118 Enhancing Learning Techniques for College and Life

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. 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 118 and RDG 107. 1(1-0) F,S

**IDS 120 Exploring Majors and Careers**

Designed to assist students in learning the process for making meaningful academic and career choices that are aligned with their unique strengths, interests, values, and personality. Students will participate in self-assessments, major and career exploration, and decision-making activities. 2(2-0) F,S

**IDS 250 Special Topics: International Travel Course**

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. 1-6 D

**IDS 275 Resident Assistant Seminar**

Designed to facilitate new Resident Assistants in developing the skills necessary to work with students living in the residence halls. 1(0-2) F,S

**IDS 280 Student/Life Leadership**

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. 1(0-2) S

**IDS 310 Peer Leadership**

Designed for the study and practical application of leadership skills that will benefit Peer Leaders working with GEP 101 instructors and students. Open to Peer Leaders only. May be repeated to a total of 3 hours. 1(1-0) D

**IDS 320 Job Search Preparation and Career/Life Planning**

Assists students who have selected an academic major and who are beginning internship, part-time, or full-time job searches, or who are making decisions on graduate and professional school. The course is designed to help students in developing a career plan and investigating the work world in terms of the students' career/life goals. Students will learn the dynamics of decision-making, the importance of gaining experience in their field of interest, and job search skills. They will engage in career research, resume writing, interviewing, networking and other career development practices. Quantity of course content supports need for 2 hour/week format. 2(2-0), F,S

**IDS 350 British Life and Culture**

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. Missouri-London Program only. 3(2-2) F,S

**IDS 397 International Culture and Study Abroad**

General Education Course (Culture and Society/Humanities Perspective). 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. 3(3-0) F,S,Su

**IDS 499 Senior Integrating Experience**

Prerequisite: permission of Associate Provost for Student Development and Public Affairs. This course provides a structure for assessing individualized majors. Students will be advised of the need to include a senior integrating experience in their individualized major program. The student's Faculty Advisory Committee must approve the proposed experience during the individualized major hearing. One or more of the committee members will oversee the experience, and will provide verification of its satisfactory completion to the Associate Provost for Student Development and Public Affairs. The student will then receive a passing grade for the course. Graded Pass/Not Pass only. 0(0-0) D

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## Department of Library Science

Duane G. Meyer Library, Room 302, Phone: (417) 836-4525, Fax: (417) 836-4764  
Email: [libsciencedept@Library.missouristate.edu](mailto:libsciencedept@Library.missouristate.edu)  
Website: <http://libraryscience.missouristate.edu/>  
Dean: Neosha A. Mackey, M.B.A., M.L.S.

### Faculty (as of July 15, 2011)

**Coordinator of Library Science Education:** Associate Professor William B. Edgar, Ph.D.

**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.

**Associate Professors:** David L. Adams, M.A. in L.S.; Donald Andrew Beisswenger, Ph.D.; Dea A. Borneman, M.A. in L.S.; James A. Coombs, M.A. in L.S., C.A.S.; William B. Edgar, Ph.D.; Crystal D. Gale, M.L.I.S.; Cheryl Jones, M.L.S.; Joshua D. Lambert, M.L.S.; David E. Richards, M.A., M.L.I.S.

**Assistant Professors:** Edward DeLong, M.A., M.L.S.; Betty Evans, M.A. in L.S.; Andrew Lokie, M.A.; Andrea L. Miller, M.A. in I.S.L.T.; Vern Reeder, M.S. in L.S.; Byron Stewart, M.A. in L.S.; Tammy R. Stewart, M.A. in L.S.; Tracy L. Stout, M.S.; Rebecca L. Thompson, M.A. in L.S.; Raegan N. Wiechert, M.A. in ISLT

**Emeritus Professors:** Charlotte Dugan, M.A. in L.S., C.A.S.; 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.; Karen L. Horny, M.A. 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.; J. B. Petty, Ph.D.; Mary Elizabeth Reid, B.S. in L.S.

### Graduate Programs

The following graduate programs are available:

Cooperative Program

Refer to the [Graduate Catalog](#) for more information.

#### Cooperative Arrangement for Master of Library Science

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. For more information on this collaborative arrangement, contact the Missouri State Department of Library Science, (417) 836-4529.

#### School Library Media Certification Courses at Graduate Level

The department offers graduate courses applicable towards Missouri School Library Media Specialist certification. Refer to the Graduate Catalog for more information.

### General Information

#### School Library Media Certification Courses at Undergraduate Level

The department offers undergraduate courses applicable towards Missouri School Library Media Specialist certification.

### 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), 518(1), 530(3), 532(3), 540(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 EDT 365(3); LIS 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. 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. Note that, per the Missouri Department of Elementary and Secondary Education, the courses IMT 365 and ENG 334, ENG 336, and ENG 338 no longer apply toward School Library Media Certification in Missouri. However, all LIS courses in the minor do still apply toward School Library Media Certification in Missouri.

## Library Science Courses

### **LIS 101 Introduction to Information Literacy**

Introduction to basic strategies and skills related to locating, evaluating, and using print and digital information resources. Information technologies, determining information needs, types of information sources, searching for and retrieving information, evaluating information for relevancy and quality, properly documenting use of information, and applying information ethically. Face to face or blended formats. 1(1-0) F,S

### **LIS 500 Libraries and Librarianship: An Introductory Seminar**

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. May be taught concurrently with LIS 600. Cannot receive credit for both LIS 500 and LIS 600. 2(2-0) D

### **LIS 502 History of Books and Libraries**

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. May be taught concurrently with LIS 602. Cannot receive credit for both LIS 602 and LIS 502. 3(3-0) D

### **LIS 504 Reference**

Prerequisite: LIS 500. An introduction to basic, general print and electronic reference sources. May be taught concurrently with LIS 604. Cannot receive credit for both LIS 604 and LIS 504. 3(3-0) D

### **LIS 506 Collection Development and Acquisitions**

Prerequisite: LIS 500. Principles of collection development including selection aids, review media and collection evaluation; methods of selection and acquisitions. May be taught concurrently with LIS 606. Cannot receive credit for both LIS 606 and LIS 506. 3(3-0) D

### **LIS 508 Cataloging and Classification**

Prerequisite: LIS 500. Basic cataloging and classification; subject headings; cataloging print and non-print material; MARC records; various types of traditional and electronic catalogs. May be taught concurrently with LIS 608. Cannot receive credit for both LIS 608 and LIS 508. 3(3-0) D

### **LIS 510 Curriculum and the School Library**

Prerequisite: LIS 500. Focuses on integrating the school library program and collections with curriculum; emphasizes diverse student learning styles; role of the school librarian as a teacher; use of electronic resources for research, teaching, and learning. May be taught concurrently with LIS 610. Cannot receive credit for both LIS 610 and LIS 510. 3(3-0) D

### **LIS 512 Reading Guidance for Young Adults**

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. May be taught concurrently with LIS 612. Cannot receive credit for both LIS 612 and LIS 512. 3(3-0) D

### **LIS 518 Service Learning in Library Science**

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. May be taught concurrently with LIS 618. Cannot receive credit for both LIS 518 and LIS 618. 1(1-0) D

### **LIS 530 Childrens Librarianship: Birth through Age 9**

Fundamentals of children's librarianship for both public librarians and school library media specialists, including collection development, programming, and current issues. May be taught concurrently with LIS 630. Cannot receive credit for both LIS 630 and LIS 530. 3(3-0) D

### **LIS 532 Library Resources and Services for Grades 4-8**

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. May be taught concurrently with LIS 632. Cannot receive credit for both LIS 632 and LIS 532. 3(3-0) D

### **LIS 534 Introduction to Storytelling**

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. May be taught concurrently with LIS 634. Cannot receive credit for both LIS 634 and LIS 534. 1(1-0) Su

### **LIS 540 Information Technologies**

Prerequisite: LIS 500. 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. May be taught concurrently with LIS 640. Cannot receive credit for both LIS 640 and LIS 540. 3(3-0) D

**LIS 596 Independent Study**

Prerequisite: LIS 500 and two of the following: LIS 504, LIS 506, LIS 508. Individual projects or study under the supervision of members of the library faculty. May be repeated to a total of 6 hours. May be taught concurrently with LIS 696. Cannot receive credit for both LIS 696 and LIS 596. 1-6 D

**LIS 597 Special Topics**

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. May be taught concurrently with LIS 697. Cannot receive credit for both LIS 697 and LIS 597. 1-3 D

**LIS 598 Action Research in the School Library**

Prerequisite: concurrent enrollment in LIS 599. Survey of action research techniques designed to assess the integration of the school library into building-level curricula and its impact on student achievement. Students will design, conduct, and evaluate an action research project in a school library. 2(2-0) D

**LIS 599 Library Practicum**

Prerequisite: LIS 500 and LIS 504 and LIS 506 and LIS 508. Supervised practical work experience in an appropriate library designed to cover all aspects of librarianship. Portfolio checkpoint number 3. May be taught concurrently with LIS 699. Cannot receive credit for both LIS 699 and LIS 599. 2-3 D

**LIS 600 Libraries and Librarianship: An Introductory Seminar**

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. May be taught concurrently with LIS 500. Cannot receive credit for both LIS 500 and LIS 600. 2(2-0), D

**LIS 602 History of Books and Libraries**

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. May be taught concurrently with LIS 502. Cannot receive credit for both LIS 502 and LIS 602. 3(3-0), D

**LIS 604 Reference**

Recommended Prerequisite: LIS 600. An introduction to basic, general print and electronic reference sources. May be taught concurrently with LIS 504. Cannot receive credit for both LIS 504 and LIS 604. 3 (3-0) D

**LIS 606 Collection Development and Acquisitions**

Recommended Prerequisite: LIS 600. Principles of collection development including selection aids, review media and collection evaluation; methods of selection and acquisitions. May be taught concurrently with LIS 506. Cannot receive credit for both LIS 506 and LIS 606. 3(3-0), D

**LIS 608 Cataloging and Classification**

Recommended Prerequisite: LIS 600. Basic cataloging and classification; subject headings; cataloging print and non-print material; MARC records; various types of traditional and electronic catalogs. May be taught concurrently with LIS 508. Cannot receive credit for both LIS 508 and LIS 608. 3(3-0), D

**LIS 610 Curriculum and the School Library**

Recommended Prerequisite: LIS 600. Focuses on integrating the school library program and collections with curriculum; emphasizes diverse student learning styles; role of the school librarian as a teacher; use of electronic resources for research, teaching, and learning. May be taught concurrently with LIS 510. Cannot receive credit for both LIS 510 and LIS 610. 3(3-0), D

**LIS 612 Reading Guidance for Young Adults**

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. May be taught concurrently with LIS 512. Cannot receive credit for both LIS 512 and LIS 612. 3(3-0), D

**LIS 618 Service Learning in Library Science**

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. May be taught concurrently with LIS 518. Cannot receive credit for both LIS 618 and LIS 518. 1(1-0), D

**LIS 620 Production and Application of Multimedia Materials in Library Media Centers**

Recommended Prerequisite: LIS 600 and LIS 610. Builds on concepts introduced in LIS 610. 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. May be taught concurrently with LIS 520. Cannot receive credit for both LIS 520 and LIS 620. 3(3-0), D

**LIS 628 School Library Administration**

Recommended Prerequisite: LIS 600 and two of the following: LIS 604, 606, 608. Administration of K-12 libraries within school

communities. Emphasizes program development, evaluation, planning cycle; budget process; services for diverse school constituencies. Examines effects of national, state and district guidelines, standards and policies on school library programs. Portfolio checkpoint number 2. 3(3-0), D

**LIS 630 Childrens Librarianship: Birth thru Age 9**

Fundamentals of children's librarianship for both public librarians and school library media specialists, including collection development, programming, and current issues. May be taught concurrently with LIS 530. Cannot receive credit for both LIS 530 and LIS 630. 3(3-0), D

**LIS 632 Library Resources and Services for Grades 4-8**

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. May be taught concurrently with LIS 532. Cannot receive credit for both LIS 632 and LIS 632. 3(3-0), D

**LIS 634 Introduction to Storytelling**

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. 1(1-0), Su

**LIS 640 Information Technologies**

Recommended Prerequisite: LIS 600. 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. May be taught concurrently with LIS 540. Cannot receive credit for both LIS 540 and LIS 640. 3(3-0), D

**LIS 696 Independent Study**

Individual projects under the supervision of members of the library faculty. May be repeated to a total of 6 hours. May be taught concurrently with LIS 596. Cannot receive credit for both LIS 596 and LIS 696. 1-6, D

**LIS 697 Special Topics**

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. May be taught concurrently with LIS 597. Cannot receive credit for both LIS 597 and LIS 697. 1-3, D

**LIS 698 Action Research in the School Library**

Prerequisite: concurrent enrollment in LIS 699. Survey of action research techniques designed to assess the integration of the school library into building/level curricula and its impact on student achievement. Students will design, conduct, and evaluate an action research project in a school library. 2(2-0) D

**LIS 699 Library Practicum**

Prerequisite: permission of department head. Supervised practical work experience in an appropriate library designed to cover all aspects of librarianship. Portfolio checkpoint number 3. May be taught concurrently with LIS 599. Cannot receive credit for both LIS 599 and LIS 699. 2-3, D

Office of the Registrar  
2011-2012 Undergraduate Catalog

First Edition  
published July 2011

Missouri State > Office of the Registrar > Undergraduate Catalog > Additional Academic Units > Missouri State Outreach

## Missouri State Outreach

300 S. Jefferson, Suite 400, Phone: (417) 836-4127, Fax: (417) 836-6016  
Email: [ec@missouristate.edu](mailto:ec@missouristate.edu)  
Website: <http://ec.missouristate.edu/>  
Administrator: Dr. Joye Norris, Associate Provost for Access and Outreach

### General Information

#### Academic Outreach

Academic Outreach works with academic departments and colleges throughout the University to provide a wide range of credit courses at both the Springfield campus and off-campus sites beyond the Springfield campus, using technology-based delivery systems and traditional off-campus instruction delivery systems. The academic programs offered undergo the same academic review and scrutiny as academic programs offered in traditional settings. Academic Outreach has the administrative and technology infrastructure, faculty support, and student support services necessary to meet the needs of distance learning students. Missouri State Off-campus branch sites include:

- Joplin – 724 Illinois Avenue
- Lebanon, MO – Nelson Education Center
- Mountain Grove, MO – Missouri State University, Mountain Grove
- Neosho, MO – Crowder College
- Nevada, MO – Nevada Telecenter
- West Plains, MO – Missouri State University, West Plains

#### Traditional On-Site Instruction

On-site instruction involves faculty driving from the Springfield campus or faculty hired from the local community who teach classes in a face-to-face format. Classes or programs are offered at many high schools or branch locations throughout southwest Missouri. Programs offered on-site include the Specialist Degree and Master's Degree in Educational Administration and other courses by special arrangement. Courses and programs offered through traditional on-site instruction or BearNet at our branch office locations are listed below.

**Joplin:** Joplin graduate students can complete Master of Science in Education (Elementary), Master of Business Administration, or Master of Social Work degrees through the Joplin extension campus located at 724 Illinois Avenue. The Master of Arts in Teaching is a cooperative program offered by Missouri State and MSSU in Joplin. 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 extension campus is also a current BearNet interactive video site.

**Lebanon:** Courses taught at the Nelson Education Center in Lebanon can apply toward bachelor's degrees in elementary education, general business, and technology management; master's 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. Courses are delivered to Lebanon from the Springfield, West Plains or Neosho campuses via the BearNet interactive network.

**Neosho:** Courses taught by Missouri State on the Crowder College campus in Neosho allow students to complete a Bachelor of Science in Elementary Education, a Bachelor of Science with a Business major, or a Bachelor of Applied Science in Agriculture. Classes are offered both "on-site" and through the BearNet interactive video network.

**Nevada:** Courses taught at the Nevada TeleCenter can apply toward bachelor's degrees in elementary education or agriculture; master's degrees in education administration, or elementary education; and a specialist degree in education administration. Courses are delivered to Nevada via the BearNet interactive network.

**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 Applied Science in General Agriculture, Bachelor of Science degree in General Business, Bachelor of Science in Elementary Education, Bachelor of Science degree in Child and Family Development, or a Bachelor of Applied Science in Technology Management. Education, Counseling and Business students will find a large number of graduate-level courses and degrees offered in West Plains.

#### Technology-Based Delivery Systems

The distance learning strategy involves two major delivery systems: interactive video (BearNet), and iCourses which can be downloaded from iTunes U. See below for a more detailed review of taking a class delivered through iTunesU.

#### Interactive Video (BearNet)

Technology-based courses delivered via BearNet, are offered multipoint at BearNet sites. BearNet has been and is currently being

used to enable students and communities to connect almost anywhere in the world with interactive video capabilities. Current BearNet sites include:

- El Reno, OK – Redlands Community College
- Joplin, MO – Joplin Extension Campus
- Lebanon, MO – Nelson Education Center
- Miami, OK – Northeastern Oklahoma A&M College
- Monett, MO – Monett High School
- Mountain Grove, MO – Missouri State University, Mountain Grove
- Neosho, MO – Crowder College campus
- Nevada, MO – Nevada Telecenter
- West Plains, MO – Missouri State University, West Plains

### **iCourses**

Missouri State University professors and technicians have produced iCourses which fulfill general educational requirements. Minimal or no physical classroom attendance of iCourses make them an ideal choice for the student who has limited time to spend in the classroom due to work, traveling distance, and/or family obligations. iCourse lectures are available on iTunesU through the MSU website or can be purchased in CD-Rom sets which may be viewed on personal computers. iCourse content can be downloaded from a computer to any MP-3 player for portable listening and video pod viewing. Students may register for classes, buy books, buy CD-Rom sets or download lectures through the internet.

### **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.

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Missouri State > Office of the Registrar > Undergraduate Catalog > Graduate College

## Graduate College

Interim Dean: Professor Dr. Pawan Kahol, Ph.D.

Associate Dean: Professor Thomas E. Tomasi, Ph.D.

Office: Carrington Hall, Room 306

Phone: (417) 836-5335; Graduate Admission (417) 836-5331, Fax: (417) 836-6888

Email: [GraduateCollege@MissouriState.edu](mailto:GraduateCollege@MissouriState.edu)

Web Site: <http://www.graduate.missouristate.edu/>

### 2011-12 Graduate Catalog

Missouri State University offers the following graduate programs:

#### Graduate Degrees and Abbreviations:

Master of Accountancy (MACC)  
Master of Arts (MA)  
Master of Arts in Teaching (MAT)  
Master of Business Administration (MBA)  
Master of Global Studies (MGS)  
Master of Health Administration (MHA)  
Master of Music (MM)  
Master of Natural and Applied Science (MNAS)  
Master of Public Administration (MPA)  
Master of Public Health (MPH)  
Master of Science (MS)  
Master of Science in Education (MSED)  
Master of Science in Nursing (MSN)  
Master of Social Work (MSW)  
Specialist in Education (EDS)  
Doctor of Audiology (AUD)  
Doctor of Physical Therapy (DPT)

#### Programs of Study:

**Accountancy** (MACC)

**Administrative Studies** (MS) *Options: Applied Communication, Criminal Justice, Environmental Management, Homeland Security, Individualized, Project Management, Sports Management*

**Applied Anthropology** (MS)

**Audiology** (AUD)

**Biology** (MS)

**Business Administration** (MBA)

**Cell and Molecular Biology** (MS)

**Chemistry** (MS)

**Communication Sciences and Disorders** (MS) *Options: Education of the Deaf and Hard of Hearing; Speech-Language Pathology*

**Communication** (MA)

**Computer Information Systems** (MS)

**Counseling** (MS) *Options: Community Agency, Elementary School Counseling, Secondary School Counseling*

**Criminology** (MS)

**Defense and Strategic Studies** (MS)

**Early Childhood and Family Development** (MS)

**Education, Specialist in** (EDS) *Options: Elementary Principal, Secondary Principal, Superintendent*

**Educational Administration** (MSED) *Options: Elementary, Secondary*

**Educational Technology** (MSED)

**English (MA)** Tracks: *Creative Writing, Literature, TESOL*

**Elementary Education (MSED)**

**Geospatial Sciences in Geography and Geology (MS)** Options: *Physical Geography, Environmental Geology*

**Global Studies (MSG)** Cognate Fields: *International Economics and Business; International Relations/Comparative Politics; National Security; Public Administration*

**Health Administration (MHA)** Option: *Executive*

**Health Promotion and Wellness Management (MS)**

**History (MA)** Tracks: *American Studies; Global Area Studies; U.S. and World*

**Literacy (MSED)**

**Materials Science (MS)**

**Mathematics (MS)**

**Music (MM)** Concentrations: *Conducting; Music Education; Music Pedagogy; Music Theory and Composition; Performance*

**Natural and Applied Science (MNAS)**

**Nurse Anesthesia (MS)**

**Nursing (MSN)** Options: *Family Nurse Practitioner, Nurse Educator*

**Physical Therapy (DPT)**

**Physician Assistant Studies (MS)**

**Plant Science (MS)**

**Project Management (MS)**

**Psychology (MS)** Options: *Clinical, Experimental, Industrial/Organizational*

**Public Administration (MPA)** Concentrations: *Local Government Management, Public Policy, Public Safety*

**Public Health (MPH)**

**Religious Studies (MA)**

**Secondary Education (MSED)** Options: *Agriculture, Art, Biology, Business, Chemistry, Earth Science, English, Family and Consumer Sciences, Geography, History, Mathematics, Music, Natural Science, Physical Education, Physics, Social Science, Speech and Theatre*

**Student Affairs in Higher Education (MS)**

**Special Education (MSED)** Options: *Autism Spectrum Disorders; Developmental Disabilities; Orientation and Mobility; Special Education Alternative Certification Track; Visual Impairment*

**Social Work (MSW)**

**Teaching (MAT)**

**Theatre (MA)**

**Writing (MA)** Tracks: *Rhetoric and Composition; Technical and Professional Writing*

## 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 collaborates 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. Students pursuing the UM-C degree enroll through MUDirect. For more information on this collaborative arrangement, contact the Department of Library Science, (417) 836-4529.

The Master of Arts in Teaching degree 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 their degree from Missouri State University and their diploma will bear the names of both institutions.

## Graduate College Program

While most of the graduate programs are associated with a specific academic department or college, the Master of Science in Administrative Studies is an interdisciplinary program that is administered by the Graduate College. The program offers six options—Applied Communication, Criminal Justice, Environmental Management, Project Management, Sports Management, and Individualized. See the Graduate Catalog for details.

## Graduate Certificate Programs

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. 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 list, two of the certificate programs require a previously earned master's degree. Specific details on each program are listed in the Graduate Catalog.

The following graduate level certificate programs are offered:

- Autism Spectrum Disorders** (18 hours) Department of Counseling, Leadership, and Special Education
- Conflict and Dispute Resolution** (16 hours) Department of Communication
- Defense and Strategic Studies** (9 hours) Department of Defense and Strategic Studies
- Forensic Accounting** (12 hours) School of Accountancy
- Forensic Child Psychology** (12 hours) Department of Psychology
- Geospatial Information Sciences** (12 hours) Department of Geography, Geology, and Planning
- History for Teachers** (15 hours) Department of History
- Homeland Security and Defense** (12 hours) College of Humanities and Public Affairs
- Instructional Technology Specialist** (15 hours) Department of Reading, Foundations, and Technology
- Orientation and Mobility** (18 hours) Department of Counseling, Leadership, and Special Education
- Ozarks Studies** (15 hours) Department of English
- Family Nurse Practitioner, Post-Master's** (37 hours) Department of Nursing
- Nurse Educator, Post-Master's** (12 hours) Department of Nursing
- Project Management** (12 hours) Department of Technology and Construction Management
- Public Management** (18 hours) Department of Political Science
- Religious Studies for the Professions** (12 hours) Department of Religious Studies
- Screenwriting for Television and Film** (12 hours) Department of Media, Journalism & Film
- Sports Management** (18 hours) Department of Health, Physical Education, and Recreation
- Tax Accounting** (12 hours) School of Accountancy
- Teaching English to Speakers of Other Languages** (15 hours) Department of English

## Accelerated Masters Programs

The Accelerated Masters 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.

Students admitted into an approved Accelerated Masters Degree Program may have a limited number of 600-700 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) 836-5331 to determine admission requirements and procedures. The following accelerated masters programs are offered:

- Accountancy** (MACC)
- Applied Anthropology** (MS)
- Biology** (MS)
- Business Administration** (MBA)
- Cell and Molecular Biology** (MS)
- Chemistry** (MS)
- Communication** (MA)
- Communication Sciences and Disorders, Option in Education of Deaf and Hard of Hearing** (MS)
- Criminology** (MS)
- Early Childhood and Family Development** (MS)
- Elementary Education** (MSED)
- Geospatial Sciences in Geography and Geology** (MS)
- Global Studies** (MGS)
- Health Administration** (MHA)
- History** (MA)
- Literacy** (MSED)

**Materials Science (MS)**

**Mathematics (MS)**

**Natural and Applied Science (MNAS)**

**Nursing (MSN)**

**Plant Science (MS)**

**Project Management (MS)**

**Public Administration (MPA)**

**Public Health (MPH)**

**Religious Studies (MA)**

**Secondary Education/History (MSED)**

**Special Education, Option in Autism Spectrum Disorders (MSED)**

**Theatre (MA)**

## Admission to Graduate Study

A completed application for admission form and the \$35 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.
3. Additional requirements and higher standards may be stipulated by departments for their programs.

Refer to the Graduate College Catalog for more information. The Graduate admission application is online at the Graduate College web site.

## Graduate Transfer Credit

On a case-by-case basis, graduate credit earned at other accredited institutions may be accepted. Refer to the Graduate Catalog for more information

## Active in Research Course

### **GEN 798 Active in Research 0(0-0), F,S,Su**

Students who have completed all course work and are only working on their research component may register for this course with approval of advisor. Course is offered at a reduced fee of \$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. Course is a zero credit hour course and is graded "P" (pass) or "W" (student discontinues participation in the course and is dropped from the course).

## 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. 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. 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 Communications and Technology
- Commission on Accreditation in 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

## Graduate College Courses

### **GRD 797 Non Thesis Project**

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. 3, F,S,Su

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