

## Harmon College of Business and Professional Studies

School of Accountancy and Computer Information Systems

AACSB Accredited

# ACCOUNTANCY

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Accounting is one of the world's fastest growing professions. The School of Accountancy and Computer Information Systems at UCM prepares students for rewarding careers in national and international organizations. Instant communication technology, rapid international travel and expanding world trade have enlarged the scope and importance of accounting services.

The Bachelor of Science in Business Administration degree prepares students for an array of challenging and financially rewarding careers. Graduates have the background necessary to evaluate the present and projected economic activities of organizations. Public accountants provide financial services and guidance to individuals, business entities, not-for-profit organizations and all levels of government. Other professional accountants apply their skills in auditing, taxation, management policy, information systems, computer operations and many other areas. Central Missouri's accounting programs qualify graduates to sit for professional accounting examinations such as CPA and CMA. An Accounting degree also provides excellent preparation for graduate study in business or law school.

UCM offers seamless graduate programs in accounting. The Master of Business Administration with an emphasis in Accounting or the Master of Arts in Accountancy can be completed within a year.

### Program Requirements

Students must earn a minimum grade of C in the following courses if they are to be applied toward the

fulfillment of a major in accounting: Principles of Financial Accounting, Principles of Managerial Accounting, Intermediate Financial Accounting I, II, and III, Cost and Managerial Accounting, Introduction to Income Tax, and Accounting Information Systems.

### About the Faculty

UCM's accounting classes are taught by dynamic and experienced faculty members who believe in personalized attention for their students. Such attention is made possible through the university's low 17 to 1 ratio. In addition to outstanding academic accomplishments, faculty members bring a wide background of training and experience to the department. Their practical experience and demonstrated competence in many areas contribute to students' professional growth. Faculty members are actively involved in research projects and professional organizations that keep them current with their areas of expertise.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of professional service and academic interest. The Accounting Students Association helps students become familiar with opportunities available to them in the accounting field. The organization enables members to interact on a personal and informal basis with fellow accounting students and faculty members. The association meets regularly, sponsors and speakers provide an avenue for participation in

other campus activities. Students may also join Beta Alpha Psi, a National Accounting Organization, that is an honorary accounting society for men and women.

### Special Facilities

The school's offices are located in the Dockery Building, one of the landmark structures on Central Missouri's campus. Outstanding classroom, research and computer facilities are available for accounting students in the Ward Edwards Building, and at numerous other easily accessible locations. University computer labs are equipped with state-of-the-art hardware and software, and are supervised by experienced technicians who are available for assistance. Computer literacy is stressed throughout the accounting program.

### Placement

UCM's Office of Career Services assists students seeking employment while serving representatives of business, government, industry and education who are looking for prospective employees. Employment interviews are conducted on campus throughout the year. Accounting graduates are in high demand by employers, including the nation's largest accounting firms.

### To Learn More

[www.ucmo.edu](http://www.ucmo.edu)  
School of Accountancy and  
Computer Information Systems  
660-543-4631  
Admissions  
660-543-4290

**Accountancy Major, B.S.B.A. Degree (46-259)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
BTE 1210 Essentials of Managing Information*+	2	COMM 1000 Public Speaking	3
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics*	3
MATH 1111 College Algebra*	3	ENGL 1030 Composition II	3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		
AE 1400 or BADM 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*#	3	ACCT 2102 Principles of Managerial Accounting*#	3
ECON 1011 Principles of Microeconomics*	3	ACCT 3110 Intermediate Financial Accounting I#	3
FIN 2801 Business Statistics I*	3	BLAW 2720 Legal Environment of Business*	3
General Education	7	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Note: Complete all B.S.B.A. admission requirements and apply for admission*</b>			
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 3111 Intermediate Financial Accounting II#	3	ACCT 3112 Intermediate Financial Accounting III#	3
ACCT 3120 Cost & Managerial Accounting#	3	ACCT 3130 Introduction to Income Tax#	3
FIN 3801 Business Statistics II	3	FIN 3850 Principles of Finance	3
MGT 3315 Management of Organizations	3	MGT 3325 Business Communications	3
MKT 3405 Marketing Policy	3	Accounting or Business Elective***	3
Free Choice Elective+	1	Free Choice Elective	1
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 3160 Accounting Information Systems#	3	ACCT 4105 Auditing	3
ACCT 4100 Advanced Accounting I	3	BLAW 3721 Law of Business Transactions	3
MGT 3360 Production/Operations Management	3	ICAP 4357 Organizational Policy and Strategy	3
Accounting or Business Elective***	3	Free Choice Electives	7
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

**Accountancy Major, B.S.B.A. Degree - 123 Hours**

- \*Accountancy majors must complete eight preadmission courses with a grade of C or higher and obtain a 2.65 cumulative GPA and a 2.65 in these specific courses for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- \*\*AE 1400 or BADM 1400 (1 hr.) is highly recommended for academic success. AE 1400 or BADM 1400 counts as a free choice elective.
- \*\*\*At least one major elective course must be outside accounting.
- +CIS 1600 (3 hours) taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and will fulfill UCM's General Education Division II Area A Part II Technology requirement. This will reduce the required free choice electives by one hour.
- #Grade of "C" or higher required for sophomore and junior level Accounting courses.
- Some courses in this major require a certain cumulative gpa and/or a minimum grade of C in all prerequisite courses, see the most current Undergraduate Catalog for details.
- This program requires at least 90 hours of courses without the ACCT prefix.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# ACTUARIAL SCIENCE AND STATISTICS

BACHELOR OF SCIENCE DEGREE - OPTION 1 ACTUARIAL SCIENCE

Actuarial Science is concerned with the random events that affect human life or property and the financial impact that occurrence of one of these events may have. Using statistical, financial and economic techniques to evaluate the risks and business implications of future events, actuaries design financial security programs which focus on life, health, property, casualty, retirement, demographic, economic and investment possibilities.

The Actuarial Science program in the Department of Mathematics and Computer Science at University of Central Missouri is one of several dozen advanced actuarial science programs in USA and the only one in Missouri public institutions. It offers a curriculum that prepares students for a series of actuarial exams sponsored by S.O.A. and C.A.S. The program's major required courses in Applied Statistics, Economics, and Finance are SOA/CAS approved VEE-credit courses.

### Computer Facilities

The actuarial science and statistics program is supported by two labs. Computers in the labs are installed with several commonly used statistical and actuarial packages such as SPSS, SAS, Prophet, and TAS for instructional purposes. Variety of other software is also available to the students.

### About the Faculty

All actuarial science and statistics classes are taught by experienced and caring faculty members who believe in individualized attention for their students. In addition to a wide range of academic and professional experience, more than 80 percent of faculty members in this program have earned doctorates. The remaining faculty members have master's degrees. The actuarial coordinator in the program is certified actuary who also has had practical experiences in insurance industry. Faculty members in the program are actively engaged in research in their respective areas. Academic participation keeps faculty members current with their expanding fields.

The student-faculty ratio at UCM is about 17 to 1, which allows for personalized attention for each student.

### Student Involvement

The Department of Mathematics and Computer Science sponsors several student organizations that meet regularly to discuss topics ranging from new discoveries to career opportunities.

The Actuarial student organization in the department is very active, sponsoring a series of activities that include annual actuary career fair, actuarial guest speakers from Kansas City area, field trips to local insurance companies, and annual resume workshops.

### Career Opportunities

Actuaries were ranked as the #1 job in the United States by Wall Street Journal in 2010, as the "Best Careers 2007" by U.S. News & World Report. A similar study by U.S. News & World Report in 2006 included actuaries among the 25 Best Professions that it expects will be in great demand in the future.

Actuaries work for a variety of employers, including:

- Insurance companies
- Consulting firms
- Government insurance departments
- Colleges and universities
- Banks and investment firms
- Large corporations and public accounting firms

### To Learn More

For more information, write to the Department of Mathematics and Computer Science, W.C. Morris 222, University of Central Missouri, Warrensburg, MO 64093; call 660-543-4930; or visit the department's webpage at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, please call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Actuarial Science and Statistics Major - Option 1 Actuarial Science, B.S. Degree (43-475)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CS 1100 Computer Programming I	3	CS 2800 Interactive System Design**	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1300 Basic Statistics	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I	5	MATH 2410 Discrete Mathematics	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	MATH 4312 Probability Models***	3
MATH 2153 Calculus & Analytic Geometry III	3	MATH 4501 Actuarial Exam Review Problem Set I***	1
MATH 3311 Introduction to Math Statistics***	3	MATH 4510 Mathematics of Finance***	3
General Education	6	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Totals</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ECON 3010 Intermediate Macroeconomics***	3	FIN 3861 Financial Management I	3
FIN 4817 Managing Financial Derivatives***	3	FIN 4803 Principles of Insurance	3
MATH 3321 Applied Statistics I***	3	MATH 4322 Applied Statistics II***	3
MATH 4511 Actuarial Exam Review Problem Set II***	1	Major Elective#	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 4520 Life Contingencies***	3	ICAP 4245 Actuarial Science Capstone Experience***	3
Major Elective#	3	MATH 4530 Actuarial Modeling***	3
General Education	6	Major Elective	3
Free Choice Electives##	3	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives##	3
		<b>Semester Total</b>	<b>15</b>

**Actuarial Science and Statistics Major - Option 1 Actuarial Science, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This course is only offered during spring semester, every other year.
- \*\*\*This course is only offered during the semester indicated.
- #This major Option requires 9 hours of major electives. See the Undergraduate Catalog for a list of appropriate choices.
- ##The number of free choice electives required will depend on selections made in the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# ACTUARIAL SCIENCE AND STATISTICS

BACHELOR OF SCIENCE DEGREE - OPTION 2 STATISTICS

Statistics is an applied science discipline. It uses mathematics knowledge and computer technology to help people make decisions and predictions based on the collection, interpretation, analysis, and presentation of data. Statistics plays a vital role in various social and natural sciences such as political science, sociology, business, economics, finance, insurance, biology, chemistry, engineering as well as medical industry.

The use of statistics is growing rapidly in both private industry and government. There is always a demand for the skilled statisticians. Technological advances are expected to spur demand for statisticians even further; ever-faster computer processing allows statisticians to analyze greater amounts of data much more efficiently.

UCM's Department of Mathematics and Computer Science is meeting the expanding need of the program that includes in-depth training in statistics as well as other disciplines. The department offers a diverse curriculum, including courses in mathematics, statistics, actuarial science, computer science, and mathematics education. Students may begin the study of statistics and mathematics at a level equal to their background. Students with strong mathematics backgrounds may choose to begin with calculus. Others may choose to start with college algebra, trigonometry, and basic statistics.

### Computer Facilities

The actuarial science and statistics program is supported by two labs. Computers in the labs are installed commonly used statistics and mathematics software such as Microsoft Office, MATLAB, SPSS, Maple and SAS for class teaching and students practices. A variety of other software is also available to students.

### About the Faculty

All actuarial science and statistics classes are taught by experienced and caring faculty members who believe in individualized attention for their students. In addition to a wide range of academic and professional experience, more than 80 percent of faculty members in this program have earned doctorates. The remaining faculty members have master's degrees. Faculty members actively engage in research: publishing research articles in professional journals, presenting papers at international and national conferences, reviewing books or papers for professional journals, and organizing workshops and seminars.

Academic participation keeps faculty members current with their expanding fields.

The student-faculty ratio at UCM is about 17 to 1, which allows for personalized attention for each student.

### Student Involvement

The Department of Mathematics and Computer Science sponsors several student organizations that meet regularly to discuss topics ranging from new discoveries to career opportunities.

Included are Kappa Mu Epsilon, a national honor society for mathematics students; the Association for Computing Machinery, which keeps students informed of changes in the department's and university's computer facilities; a student chapter of the Mathematical Association of America, for students interested in recent developments in the mathematical community; the Actuarial Organization, which provides students with career information about the actuarial profession; and the Central Missouri Math Educators, which provides opportunities for prospective middle school and high school teachers to discuss methods and trends in teacher

education with UCM faculty members and area public school teachers.

### Career Opportunities

Statistics program at UCM is equipped students with quantitative skills that they can employ and build on in flexible ways. Some students will continue their study for graduate work in statistics or other fields; while majority of students seek employment with their undergraduate degree.

Since our statistics graduates contribute to scientific inquiry by applying their mathematical and statistical knowledge to the design of surveys and experiments; the collection, processing, and analysis of data; and the interpretation of the results, they find themselves in a variety of environments in academic, research, industry, government agencies, private and business organizations. With the strong training of quantitative reasoning in statistics, mathematics, and computer programming at UCM, statistics graduates are frequently employed in many professions as demographers, actuaries, financial planners, survey researchers, data management analysts, financial analysts, biostatisticians, operations research analysts, business analysts, as well as marketing research analysts with decent salary.

### To Learn More

For more information, write to the Department of Mathematics and Computer Science, W.C. Morris 222, University of Central Missouri, Warrensburg, MO 64093; call 660-543-4930; or visit the department's webpage at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, please call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Actuarial Science and Statistics Major - Option 2 Statistics, B.S. Degree (43-475)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CS 1100 Computer Programming I	3	CS 2800 Interactive System Design**	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytic Geometry I	5	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1300 Basic Statistics	3	MATH 2410 Discrete Mathematics	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MATH 2153 Calculus & Analytic Geometry III	3	CS 4420 Systems Simulation and Modeling	3
MATH 3311 Introduction to Math Statistics***	3	MATH 3151 Differential Equations	3
MATH 3710 Linear Algebra	3	MATH 4312 Probability Models***	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Totals</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 3321 Applied Statistics I***	3	CS 4100 SAS Programming	3
Major Electives#	4	MATH 4322 Applied Statistics II***	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 4323 Statistical Aspects of Experimental Design	3	MATH 4530 Actuarial Modeling***	3
Major Electives#	6	Major Elective#	4-5
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives##	5-6
		<b>Semester Total</b>	<b>16</b>

**Actuarial Science and Statistics Major - Option 2 Statistics, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This course is only offered during spring semester, every other year.
- \*\*\*This course is only offered during the semester indicated.
- # This major Option requires 14-15 hours of major electives. See the Undergraduate Catalog for a list of appropriate choices.
- ##The number of free choice electives required will depend on selections made in the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# AGRICULTURE-BUSINESS

## AREA 1: AGRIBUSINESS MANAGEMENT, BACHELOR OF SCIENCE DEGREE

The major in Agriculture-Business includes specializations in Agricultural Management, Animal Science, Crop and Soil Science, and Horticultural Science. The interdisciplinary curriculum provides students with a background in all phases of agriculture and specialized courses allow students to expand their knowledge in their area of interest.

Agriculture students at UCM can expect more than just four years of class work. The department believes students should obtain the hands-on experience that employers expect and that high-tech agriculture careers demand.

Students learn by doing through such opportunities as assisting in agronomic field test plot research, helping with variety testing trials, raising plants for a Horticulture Club sale, working with HeatWatch cattle estrus and ultra-sound pregnancy monitoring systems, welding or repairing tractors, and plotting cattle futures.

### Employment Opportunities

The agriculture-business program prepares students for a wide variety of job opportunities in the day-to-day operation of Missouri's agriculture industry, the second largest sector of the state's economy. The Office of Career Services assists students and graduates in obtaining employment in their fields. In addition, the department plays a role in the placement of its graduates by maintaining contact with representatives of agribusiness industries, the U.S. School of Environmental, Physical, and

Applied Sciences, Missouri School of Environmental, Physical, and Applied Sciences agencies and other agriculture-oriented businesses.

### Faculty and Facilities

Dedicated faculty and well-equipped facilities offer students a quality learning experience. All department faculty members have earned doctorates in their field of specialization and, with a university student-faculty ratio of about 17 to 1, are able to provide personalized attention and instruction. Small classes allow for informal class sessions and increased access to the department's computers and laboratory facilities. The 260-acre Prussing Farm, under development as a teaching unit, includes a new Agriculture and Conservation Classroom Building, and a Trap and Skeet Range.

### Student Involvement

UCM's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization in the program that fosters an inclusive atmosphere for all students on campus that have an agriculture interest. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. Central Missouri's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the state level. The Delta Tau Alpha national agriculture honor society strives to promote leadership and academic excellence for its members and the

department through a multitude of activities such as traveling to the group's nation convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools.

### Scholarships

In addition to more than \$4 million in merit-based scholarships and awards annually presented to Central Missouri students by the university, the School of Environmental, Physical, and Applied Sciences offers over \$20,000 in awards specifically for agriculture majors. These include the Ag Partner's, E.F. Low, Earle and Clara Low, Edward and Trudy Denham, Farm Bureau, Lawrence E. and Eva L. Flanders, Missouri School of Environmental, Physical, and Applied Sciences, Clarence Pearce Agriculture Education, William Forrest Sterling, W.J. and Lela Budwine Foundation/ Charles Simmons Scholarship and Theiss Family Scholarships.

### For More Information

To learn more write to the School of Environmental, Physical, and Applied Sciences, Grinstead 126, UCM, Warrensburg, MO 64093; email the department at [agriculture@ucmo.edu](mailto:agriculture@ucmo.edu); visit the department's web site at [www.ucmo.edu/agriculture](http://www.ucmo.edu/agriculture) or call 660-543-4240. For admission information, call 877-SAY-UCMO (877-729-8266) or visit UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Agriculture-Business Major - Area 1: Agribusiness Management, B.S. Degree (43-277)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introductory Horticulture Science (Lab)	3
AGRI 1300 Introductory Plant Science	1	AGRI 2425 Livestock Evaluation (Lab)	3
AGRI 1420 Animal Husbandry	3	ECON 1010 Principles of Macroeconomics	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab)	4	ENGL 1030 Composition II	3
COMM 1000 Public Speaking	3	MATH 1111 College Algebra	3
ENGL 1020 Composition I	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 2330 Introduction to Soil Science (Lab)	3	ACCT 2101 Principles of Financial Accounting or	
LIS 1600 University Library and Research Skills	2	ACCT 2100 Survey of Accounting	3
General Education	9	AGRI 2130 Global Agriculture	3
<b>Semester Total</b>	<b>14</b>	AGRI 1310 Agronomy I: Row Crops or	
		AGRI 2315 Agronomy II: Forages	2
		ECON 1011 Principles of Microeconomics	3
		General Education	6
		<b>Semester Total</b>	<b>17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3110 Agri-Business Management	3	AGRI 4110 Agricultural Futures Trading	3
AGRI 3140 Agricultural Analysis and Statistics	3	AGRI 4140 Agricultural Policy	3
AGRI 3410 Animal Breeding or		AGRI 4300 Soil Fertility & Fertilizers	3
AGRI 4310 Plant Breeding & Genetics	3	General Education	6
ECON 3030 Intermediate Microeconomics	3	<b>Semester Total</b>	<b>15</b>
MKT 3430 Personal Sales	3		
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3120 Distrib. and Marketing of Agriculture Products	3	AGRI 4120 International Agriculture	3
AGRI 3610 Agriculture Pest Management	3	AGRI 4150 Natural Resources Economics	3
AGRI 3810 Internship in Agriculture	3	ICAP 4101 Agricultural Capstone Experience	3
BLAW 2720 Legal Environment of Business	3	Free Choice Electives	5
Free Choice Electives	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Agriculture-Business Major, Area 1: Agribusiness Management B.S. Degree - 120 hours**

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# AGRICULTURE-BUSINESS

## AREA 2: ANIMAL SCIENCES, BACHELOR OF SCIENCE DEGREE

The major in Agriculture-Business includes specializations in Agricultural Management, Animal Science, Crop and Soil Science, and Horticultural Science. The interdisciplinary curriculum provides students with a background in all phases of agriculture and specialized courses allow students to expand their knowledge in their area of interest.

Agriculture students at UCM can expect more than just four years of class work. The department believes students should obtain the hands-on experience that employers expect and that high-tech agriculture careers demand.

Students learn by doing through such opportunities as assisting in agronomic field test plot research, helping with variety testing trials, raising plants for a Horticulture Club sale, working with HeatWatch cattle estrus and ultra-sound pregnancy monitoring systems, welding or repairing tractors, and plotting cattle futures.

### Employment Opportunities

The agriculture-business program prepares students for a wide variety of job opportunities in the day-to-day operation of Missouri's agriculture industry, the second largest sector of the state's economy. The Office of Career Services assists students and graduates in obtaining employment in their fields. In addition, the department plays a role in the placement of its graduates by maintaining contact with representatives of agribusiness industries, the U.S. School of Environmental, Physical, and Applied Sciences, Missouri School of

Environmental, Physical, and Applied Sciences agencies and other agriculture-oriented businesses.

### Faculty and Facilities

Dedicated faculty and well-equipped facilities offer students a quality learning experience. All department faculty members have earned doctorates in their field of specialization and, with a university student-faculty ratio of about 17 to 1, are able to provide personalized attention and instruction. Small classes allow for informal class sessions and increased access to the department's computers and laboratory facilities. The 260-acre Prussing Farm, under development as a teaching unit, includes a new Agriculture and Conservation Classroom Building, and a Trap and Skeet Range. It is also the home of Central Missouri's national champion Simmental herd. The show string provides interested students with the opportunity to compete in national shows.

### Student Involvement

UCM's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization in the program that fosters an inclusive atmosphere for all students on campus that have an agriculture interest. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. Central Missouri's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the state

level. The Delta Tau Alpha national agriculture honor society strives to promote leadership and academic excellence for its members and the department through a multitude of activities such as traveling to the group's nation convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools.

### Scholarships

In addition to more than \$4 million in merit-based scholarships and awards annually presented to Central Missouri students by the university, the School of Environmental, Physical, and Applied Sciences offers over \$20,000 in awards specifically for agriculture majors. These include the Ag Partner's, E.F. Low, Earle and Clara Low, Edward and Trudy Denham, Farm Bureau, Lawrence E. and Eva L. Flanders, Missouri School of Environmental, Physical, and Applied Sciences, Clarence Pearce Agriculture Education, William Forrest Sterling, W.J. and Lela Budwine Foundation/ Charles Simmons Scholarship and Theiss Family Scholarships.

### For More Information

To learn more write to the School of Environmental, Physical, and Applied Sciences, Grinstead 126, UCM, Warrensburg, MO 64093; email the department at [agriculture@ucmo.edu](mailto:agriculture@ucmo.edu); visit the department's web site at [www.ucmo.edu/agriculture](http://www.ucmo.edu/agriculture) or call 660-543-4240. For admission information, call 877-SAY-UCMO (877-729-8266) or visit UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Agriculture-Business Major - Area 2: Animal Sciences, B.S. Degree (43-277)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introductory Horticulture Science (Lab)	3
AGRI 1300 Introductory Plant Science	1	AGRI 2425 Livestock Evaluation (Lab)	3
AGRI 1420 Animal Husbandry	3	ECON 1010 Principles of Macroeconomics	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab)	4	ENGL 1030 Composition II	3
COMM 1000 Public Speaking	3	MATH 1111 College Algebra	3
ENGL 1020 Composition I	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 2130 Global Agriculture	3	AGRI 1310 Agronomy I: Row Crops or	
AGRI 2330 Introduction to Soil Science (Lab)	3	AGRI 2315 Agronomy II: Forages	2
AGRI 3410 Animal Breeding or		LIS 1600 University Library and Research Skills	2
AGRI 4310 Plant Breeding & Genetics	3	General Education	12
ECON 1011 Principles of Microeconomics	3	<b>Semester Total</b>	<b>16</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3110 Agri-Business Management	3	AGRI 4110 Agricultural Futures Trading	3
AGRI 3120 Distrib. and Marketing of Agriculture Products	3	AGRI 4300 Soil Fertility & Fertilizers	3
AGRI 3415 Meat Science	3	AGRI 4435 Animal Science: Pork	3
AGRI 4415 Reproduction of Farm Animals	3	General Education	3
General Education	3	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3420 Animal Nutrition	3	AGRI 4410 General Veterinary Science	3
AGRI 3610 Agriculture Pest Management	3	AGRI 4430 Animal Science: Beef	3
AGRI 3810 Internship in Agriculture	3	ICAP 4101 Agricultural Capstone Experience	3
Free Choice Electives	6	Free Choice Electives	5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Agriculture-Business Major - Area 2: Animal Sciences, B.S. Degree - 120 hours**

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# AGRICULTURE-BUSINESS

AREA 3: CROP AND SOIL SCIENCE, BACHELOR OF SCIENCE DEGREE

The major in Agriculture-Business includes specializations in Agricultural Management, Animal Science, Crop and Soil Science, and Horticultural Science. The interdisciplinary curriculum provides students with a background in all phases of agriculture and specialized courses allow students to expand their knowledge in their area of interest.

Agriculture students at UCM can expect more than just four years of class work. The department believes students should obtain the hands-on experience that employers expect and that high-tech agriculture careers demand.

Students learn by doing through such opportunities as assisting in agronomic field test plot research, helping with variety testing trials, raising plants for a Horticulture Club sale, working with HeatWatch cattle estrus and ultra-sound pregnancy monitoring systems, welding or repairing tractors, and plotting cattle futures.

### Employment Opportunities

The agriculture-business program prepares students for a wide variety of job opportunities in the day-to-day operation of Missouri's agriculture industry, the second largest sector of the state's economy. The Office of Career Services assists students and graduates in obtaining employment in their fields. In addition, the department plays a role in the placement of its graduates by maintaining contact with representatives of agri-business industries, the U.S. School of Environmental, Physical, and Applied Sciences, Missouri School of

Environmental, Physical, and Applied Sciences agencies and other agriculture-oriented businesses.

### Faculty and Facilities

Dedicated faculty and well-equipped facilities offer students a quality learning experience. All department faculty members have earned doctorates in their field of specialization and, with a university student-faculty ratio of about 17 to 1, are able to provide personalized attention and instruction. Small classes allow for informal class sessions and increased access to the department's computers and laboratory facilities. The 260-acre Prussing Farm, under development as a teaching unit, includes a new Agriculture and Conservation Classroom Building, and a Trap and Skeet Range.

### Student Involvement

UCM's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization in the program that fosters an inclusive atmosphere for all students on campus that have an agriculture interest. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. Central Missouri's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the state level. The Delta Tau Alpha national agriculture honor society strives to promote leadership and academic excellence for its members and the department through a multitude of

activities such as traveling to the group's nation convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools.

### Scholarships

In addition to more than \$4 million in merit-based scholarships and awards annually presented to Central Missouri students by the university, the School of Environmental, Physical, and Applied Sciences offers over \$20,000 in awards specifically for agriculture majors. These include the Ag Partner's, E.F. Low, Earle and Clara Low, Edward and Trudy Denham, Farm Bureau, Lawrence E. and Eva L. Flanders, Missouri School of Environmental, Physical, and Applied Sciences, Clarence Pearce Agriculture Education, William Forrest Sterling, W.J. and Lela Budwine Foundation/ Charles Simmons Scholarship and Theiss Family Scholarships.

### For More Information

To learn more write to the School of Environmental, Physical, and Applied Sciences, Grinstead 126, UCM, Warrensburg, MO 64093; email the department at [agriculture@ucmo.edu](mailto:agriculture@ucmo.edu); visit the department's web site at [www.ucmo.edu/agriculture](http://www.ucmo.edu/agriculture) or call 660-543-4240. For admission information, call 877-SAY-UCMO (877-729-8266) or visit UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Agriculture-Business Major - Area 3: Crop and Soil Science, B.S. Degree (43-277)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introductory Horticulture Science (Lab)	3
AGRI 1300 Introductory Plant Science	1	ECON 1010 Principles of Macroeconomics	3
AGRI 1420 Animal Husbandry	3	ENGL 1030 Composition II	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab)	4	MATH 1111 College Algebra	3
COMM 1000 Public Speaking	3	General Education	3
ENGL 1020 Composition I	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 1310 Agronomy I: Row Crops or AGRI 2315 Agronomy II: Forages	2	AGRI 2130 Global Agriculture	3
AGRI 2330 Introduction to Soil Science (Lab)	3	AGRI 2425 Livestock Evaluation (Lab)	3
ECON 1011 Principles of Microeconomics	3	IIS 1600 University Library and Research Skills	2
General Education	6	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3110 Agri-Business Management	3	AGRI 2331 Soils	3
AGRI 3140 Agricultural Analysis and Statistics	3	AGRI 3210 Soil & Water Management	3
AGRI 3610 Agriculture Pest Management (Lab)	3	AGRI 4110 Agricultural Futures Trading	3
General Education	6	AGRI 4300 Soil Fertility & Fertilizers	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	4
		<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3120 Distrib. and Marketing of Agriculture Products	3	AGRI 3320 Field Crop Management	3
AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics	3	AGRI 4120 International Agriculture	3
AGRI 3810 Internship in Agriculture	3	ICAP 4101 Agricultural Capstone Experience	3
AGRI 4340 Agricultural Sprays and Chemicals (Lab)	3	Free Choice Electives	6
Free Choice Electives	4	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Agriculture-Business Major - Area 3: Crop and Soil Science, B.S. Degree - 120 hours**

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# AGRICULTURE-BUSINESS

## AREA 4: HORTICULTURAL SCIENCE, BACHELOR OF SCIENCE DEGREE

The major in Agriculture-Business includes specializations in Agricultural Management, Animal Science, Crop and Soil Science, and Horticultural Science. The interdisciplinary curriculum provides students with a background in all phases of agriculture and specialized courses allow students to expand their knowledge in their area of interest.

Agriculture students at UCM can expect more than just four years of class work. The department believes students should obtain the hands-on experience that employers expect and that high-tech agriculture careers demand.

Students learn by doing through such opportunities as assisting in agronomic field test plot research, helping with variety testing trials, raising plants for a Horticulture Club sale, working with HeatWatch cattle estrus and ultra-sound pregnancy monitoring systems, welding or repairing tractors, and plotting cattle futures.

### Employment Opportunities

The agriculture-business program prepares students for a wide variety of job opportunities in the day-to-day operation of Missouri's agriculture industry, the second largest sector of the state's economy. The Office of Career Services assists students and graduates in obtaining employment in their fields. In addition, the department plays a role in the placement of its graduates by maintaining contact with representatives of agri-business industries, the U.S. School of Environmental, Physical, and Applied Sciences, Missouri School of Environmental, Physical, and Applied

Sciences agencies and other agriculture-oriented businesses.

### Faculty and Facilities

Dedicated faculty and well-equipped facilities, such as a computer lab for the exclusive use by Agriculture students plus a soils lab offer students a quality learning experience. All department instructors have earned doctorates in their field of specialization and, with a university student-faculty ratio of about 17 to 1, are able to provide personalized attention and instruction. Small classes allow for informal class sessions and increased access to the Agriculture program computers and laboratory facilities.

In addition to the typical classrooms, the Prussing Farm and the Mitchell Street Farm provide students with hands-on experience in all phases of Agriculture. Two greenhouses, shade houses, propagation mist benches, cold frames and apple orchard provide horticulture students opportunities to learn horticulture as practiced by the horticulture industry.

### Student Involvement

UCM's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization in the program that fosters an inclusive atmosphere for all students on campus that have an agriculture interest. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. Central Missouri's Collegiate Farm Bureau provides an opportunity to interact

with local farmers and to participate in agriculture activities at the state level. The Delta Tau Alpha national agriculture honor society strives to promote leadership and academic excellence for its members and the department through a multitude of activities such as traveling to the group's nation convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools.

### Scholarships

In addition to more than \$4 million in merit-based scholarships and awards presented annually to UCM students by the university, the Agriculture Program offers a number of awards specifically for agriculture majors. These include the Ag Partner's, E.F. Low, Earle and Clara Low, Edward and Trudy Denham, Farm Bureau, Lawrence E. and Eva L. Flanders, Missouri Department of Agriculture, Clarence Pearce Agriculture Education, William Forrest Sterling, and Theiss Family Scholarships. In addition, the Master Gardeners of Johnson County Scholarship, and the W.H. "Bill" AND Helen Tunison Ehrich Scholarship are awarded to horticulture students.

### For More Information

To learn more write to the School of Environmental, Physical, and Applied Sciences, Grinstead 126, UCM, Warrensburg, MO 64093; email the department at [agriculture@ucmo.edu](mailto:agriculture@ucmo.edu); visit the department's web site at [www.ucmo.edu/agriculture](http://www.ucmo.edu/agriculture) or call 660-543-4240. For admission information, call 877-SAY-UCMO (877-729-8266) or visit UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Agriculture-Business Major - Area 4: Horticultural Science, B.S. Degree (43-277)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introductory Horticulture Science (Lab)	3
AGRI 1300 Introductory Plant Science	1	COMM 1000 Public Speaking	3
AGRI 1420 Animal Husbandry	3	ECON 1010 Principles of Macroeconomics	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab)	4	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	MATH 1111 College Algebra	3
LIS 1600 University Library and Research Skills	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 2330 Introduction to Soil Science (Lab)	3	AGRI 1310 Agronomy I: Row Crops or	
ECON 1011 Principles of Microeconomics	3	AGRI 2315 Agronomy II: Forages	2
General Education	9	AGRI 2130 Global Agriculture	3
<b>Semester Total</b>	<b>15</b>	AGRI 2425 Livestock Evaluation (Lab)	3
		General Education	6
		<b>Semester Total</b>	<b>14</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3110 Agri-Business Management	3	AGRI 3610 Agricultural Pest Management (Lab)	3
AGRI 4600 Horticultural Plants I: Woody (Lab)	3	AGRI 3620 Residential Landscape Design (Lab)	3
AGRI 4610 Turfgrass Science (Lab)	3	AGRI 4300 Soil Fertility & Fertilizers	3
General Education	6	AGRI 4605 Horticultural Plants II: Herbaceous	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15</b>
<b>Between Junior and Senior Year - Summer</b>	<b>Hrs.</b>		
AGRI 3810 Internship in Agriculture	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AGRI 3120 Distrib. and Marketing of Agriculture Products	3	AGRI 3640 Horticultural Propagation Materials (Lab)	3
AGRI 3410 Animal Breeding or		AGRI 4000 Special Projects in Agriculture	3
AGRI 4310 Plant Breeding & Genetics	3	ICAP 4101 Agricultural Capstone Experience	3
AGRI 4340 Agricultural Sprays and Chemicals	3	Free Choice Electives	5
Free Choice Electives	6	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Agriculture-Business Major - Area 4: Horticultural Science, B.S. Degree - 120 hours**

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# ART

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

The art education program at University of Central Missouri is designed to simultaneously develop the artistic abilities, knowledge and thinking of the student, as well as the skills and understanding required for entry into the profession of teaching. The philosophy of the department is that art teachers should be dedicated to ongoing development of their knowledge of art and ability as artists, in addition to becoming skilled practitioners in the art of teaching.

Central Missouri's Department of Art & Design is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state supported 4-year institution in Missouri with NASAD accreditation, and has been since 1986. The Teacher Education Program is accredited by the National Council for the Accreditation of Teacher Education (NCATE). Art education is an important part of the art department with more than 100 students among last years 530+ art majors in the department having declared this as their major. Students receive the Bachelor of Science in Education degree (BSE) which provides them with K-12 Missouri teaching certification in art. The courses that prepare the student specifically to be an art teacher are taken within the art department, while classes that deal with general knowledge and skills for teaching are taken within the College of Education.

### About the Faculty

The Department of Art & Design has an outstanding faculty with extensive records of achievement and recognition in research and exhibition who are committed to teaching and developing the artistic potential of every student.

The art education program is directed by two full-time faculty, both with public school teaching experience and strong connections to art education professional organizations. One of the faculty members is a recent past president of the Missouri Art Education Association, as well as a former Missouri Art Educator of the Year. Both have been recognized for their research in art education, and both continue to practice and exhibit their work in addition to their teaching and research in art education.

### Studio Art

Art education majors acquire a broad base of experience in studio art. For every student, this foundation includes multiple courses in drawing and design, as well as courses in painting, sculpture, ceramics, fibers, and printmaking. Students choose one area of emphasis in which they take an additional six credit hours. These additional classes serve to further develop the student's potential as an artist through acquisition of more advanced knowledge and skill with one particular medium.

### Art History, Art Criticism and Aesthetics

Equally important in the art education program is the student's knowledge and understanding of the art world: the history of art (both western and non-western, historical and contemporary), knowledge of art criticism strategies, and understanding philosophies of art through the study of aesthetics. While these concepts are integrated throughout classes in the program, a sequence of five classes is devoted specifically to these topics in order to provide a solid foundation in the traditions, ideas and concepts specific to art and culture.

### Art Education Classes

Students learn about the artistic development of children and adolescents. They learn to use a comprehensive approach for teaching art in which Art Production as an activity is connected to Art History, Art Criticism, and Aesthetics. Partnerships have been established with area schools, and students have opportunities to try out their art teaching ideas at these locations.

### Employment opportunities

K-12 certification enables the graduate in art education to apply for teaching jobs at any grade level, elementary through high school. Historically, Central Missouri's graduates have been in high demand, with better than 90 percent of students finding teaching jobs after their graduation for the next school year. Alumni are in positions of leadership and responsibility in many of the area's top schools and art programs. In regard to job opportunities out of state, recent graduates have been successful in extremely competitive situations. Acquiring teaching certification in another state has not proven to be difficult.

### For More Information

To learn more write the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For information about admission to UCM, contact the Office of Admissions, Ward Edwards 1400, UCM, Warrensburg, MO 64093, phone 877-SAY-UCMO (877-729-8266), or visit the web site [www.ucmo.edu](http://www.ucmo.edu).

**Art Major, B.S. in Ed. Degree (41-260)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>HIST 1350 or 1351 History of the United States</i></b>	3
General Education	3	<b><i>General Education MATH</i></b>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West. Art History (spring)	3	ART 1825 Art History Survey II	3
ART 2412 Ceramics I	3	ART 2420 Sculpture I	3
EDFL 2100 Foundations of Education	2	ART 2710 Printmaking I	3
FLDX 2150 Introductory Field Experience	1	<b><i>General Education Science w/lab**</i></b>	4
EDFL 2240 Educational Psychology	3	General Education	5
<b><i>POLS 1510 American Government</i></b>	3	<b>Semester Total</b>	<b>18</b>
General Education	3		
<b>Semester Total</b>	<b>18</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2511 Painting I	3	ART 3209 Figure Construction	3
ART 3314 Fibers	3	ART 3915 Methods of Teaching Art I: Elementary	3
PSY 4200 Psychology of the Exceptional Child or EDSP 2100 Education of the Exceptional Child	2	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
General Education	9	EDFL 4210 Teaching Reading in Secondary	2
<b>Semester Total</b>	<b>17</b>	PSY 4230 Psychology of Adolescence	3
		Upper Level Studio Concentration	3
		<b>Semester Total</b>	<b>17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester***</b>	<b>Hrs.</b>
ART 3920 Methods of Teaching Art II: Secondary (fall)	3	ART 4920 Methods of Teaching Art III: Seminar for Student Teaching	2
EDFL 3500 Secondary Teaching & Behavior Management	3	ART 4930 K-12 Field Experience in Art	1
FLDX 3550 Practicum in Secondary Instruction	1	FLDX 4495 Student Teaching Elementary I	5
EDFL 4300 Educational Measures & Evaluation	2	ICAP 4468 Student Teaching Secondary II	4
ICAP 4221 Artists in Contemporary Society	3	<b>Semester Total</b>	<b>12</b>
Upper Level Studio Concentration	3		
<b>Semester Total</b>	<b>15</b>		

**Art Major, B.S. in Ed. Degree - 127 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- \*\*Students pursuing a B.S. in Ed. must take a biology prefix. The second science course chosen must be from a different prefix from the list of choices in the Undergraduate Catalog. At least one course must have a laboratory.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.



## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# ATHLETIC TRAINING

## BACHELOR OF SCIENCE DEGREE

University of Central Missouri students can seek a Bachelor of Science degree in athletic training. In the spring of 2007 UCM received accreditation from the Commission on Accreditation of Athletic Training Education (CAATE). Upon graduation, and after successfully completing their BOC examination, individuals with this degree may work in many different settings, including high schools, universities, rehabilitation clinics, corporate fitness centers, as well as professional and industrial areas.

### Opportunities for Students

Central Missouri athletic training majors have the opportunity to interact with staff athletic trainers, team physicians, a wide variety of allied health care providers, and a diverse population of student athletes. These unique clinical rotations assist the student in experiencing the different types of injuries associated with physical activity in one of the largest and most successful athletic departments in the state and region. UCM offers many men's and women's sports teams who complete in NCAA Division II. The university's athletics department has a close affiliation with Central Family Medicine and its physicians. Students gain most of their clinical experiences on campus by working with staff athletic trainers and different sports teams. They also do off-campus clinical rotations with the Western Missouri Medical Center Physical Therapy Department. Other elective clinical opportunities

include working with professional organizations, including the National Basketball Association, Major League Baseball, the National Football League, and the Professional Rodeo Cowboys Association (PRCA).

### About the Faculty

In addition to a wide a range of academic and professional experience, 90 percent of the department's faculty members have earned doctorates in their fields. Active research, workshops and seminars keep faculty members current in their disciplines.

### Student Organizations

Since 2004 the athletic training majors have been involved in a student organization titled the UCM Student Athletic Trainers Association. This organization assists students in their development as future certified athletic trainers.

### About the Department

The Department of Nutrition and Kinesiology's mission is to educate students, conduct research, and engage in public service activities that address the whole person, providing a wellness approach to living and learning. The department emphasizes technology in all areas of its curriculum, and students become well versed in the use of multimedia and electronic University Library & Research Skills. Courses are offered throughout Missouri via interactive television and other means of remote delivery. Students

learn to use specialized software to conduct nutritional analysis, front office operations and other essential functions. They also develop Internet expertise through a wide variety of classroom and laboratory assignments.

### Facilities

The program has several athletic training rooms that students use on a daily basis for their clinical rotations. An interactive laboratory has been developed for athletic training majors to enhance their learning experiences.

### Scholarships

The Dr. Ronald Van Dam Scholarship is available to students who major in athletic training. The department also offers many other scholarships to students in physical education, including Achievement Awards up to \$600, which are awarded to in-coming freshman students demonstrating academic superiority.

### To Learn More

For more information about majoring in athletic training, contact the Department of Nutrition and Kinesiology, Morrow 125, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's home page at [www.ucmo.edu/kinesiology](http://www.ucmo.edu/kinesiology).

For admission information, call 877-SAY-UCMO (877-729-8266).

**Athletic Training Major, B.S. Degree (43-853)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AT 1610 Introduction to Athletic Training	2	AT 1630 Foundations of Athletic Training	2
AT 1611 Introduction to Athletic Training Lab I	1	AT 1631 Foundations of Athletic Training Lab II	1
AT 1620 Responding to Emergencies for the Prof. Rescuer	3	AT 2600 Medical Terminology	1
CHEM 1104 Introduction to the Sciences: Chemistry	4	BIOL 2401 Anatomy & Physiology I	4
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
<b>Semester Total</b>	<b>13</b>	MATH 1111 College Algebra	3
AE 1400 Freshman Seminar*	1	PE 1800 Human Anatomy	3
		<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AT 2610 Orthopedic Assessment: Lower Extremity	2	AT 2620 Orthopedic Assessment: Upper Extremity	2
AT 2611 Orthopedic Assessment: Lower Extremity Lab III	1	AT 2621 Orthopedic Assessment: Upper Extremity Lab IV	1
BIOL 2402 Anatomy & Physiology II	4	AT 2630 Therapeutic Modalities	2
PE 2320 Analysis & Teaching of Weight Training	1	AT 2631 Therapeutic Modalities Lab	1
PE 2850 Foundations of Exercise Physiology	3	HED 4300 Nutrition & Human Performance	2
General Education	3	PE 2800 Biomechanics	3
<b>Semester Total</b>	<b>14</b>	PSY 1100 General Psychology	3
		<b>Semester Total</b>	<b>14</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AT 3620 Clinical Athletic Training Lab V	2	AT 3640 Clinical Athletic Training Lab VI	2
AT 3630 Therapeutic Rehabilitation	2	AT 4630 Organization & Administration of Athletic Training	3
AT 3631 Therapeutic Rehabilitation Lab	1	COMM 1000 Public Speaking	3
AT 3650 Sport & Exercise Pharmacology	2	PE 4740 Legal Liability in Fit./Well., PE, Rec, & Sport Sett.	2
HED 4370 Human Diseases	3	General Education	6
PE 1206 Lifetime Fitness	3	<b>Semester Total</b>	<b>16</b>
General Education	2-3		
<b>Semester Total</b>	<b>15-16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AT 4610 Clinical Athletic Training Lab VII	2	AT 4620 Clinical Athletic Training Lab VIII	2
PE 4830 Psychological Aspects of Physical Education	2	AT 4640 Senior Seminar in Athletic Training	2
PSY 4520 Statistics for the Behavioral Sciences	3	IGEN 3472 Sport in American Life	3
General Education	9	PE 4850 Assessment & Evaluation of Fitness/Wellness	3
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	5
		<b>Semester Total</b>	<b>15</b>

**Athletic Training Major, B.S. Degree - 120 hours**

- AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- Admission to the Athletic Training major is a competitive process and not all who apply are admitted. The application process for the major is separate from the application process for admission to the University. UCM is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE) since the spring of 2007.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

**College of Health, Science, and Technology**  
*School of Technology*

# AUTOMOTIVE TECHNOLOGY MANAGEMENT

AREA 1: AUTOMOTIVE TECHNOLOGY, BACHELOR OF SCIENCE DEGREE

Central Missouri's program in automotive technology management is designed to produce leaders to meet the increasing demand for skilled managers in industry. The School of Technology has some of the finest facilities available to prepare students for positions in automotive technology and the transportation industry. UCM students learn from experienced, highly qualified faculty members who are thoroughly familiar with the conditions and needs of modern industry and business.

The automotive technology management program provides specialized training for students entering the automotive industry in three areas of study: automotive technology, design technology, and management technology. UCM is one of only 18 institutions nationwide offering a full-range bachelor's degree in automotive technology. Central Missouri's Automotive Technology Management Program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

## Internships

All automotive technology management students must complete an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are usually scheduled during the last half of an undergraduate program. Students earn from three to nine semester hours of credit upon completion of an internship. Internships are arranged through General Motors, Ford, Chrysler, Honda, Cummins and other employers.

## Facilities and Equipment

The T.R. Gaines Technology Building provides some of the most advanced classroom and laboratory facilities in the nation. Over one-third of the 66,000-square-foot area is devoted to the automotive technology management program. Special environmentally controlled areas include rooms devoted to fluid power instruction in hydraulics and pneumatics and for diesel fuel systems. Separate areas are designed for complete engine and transmission diagnosis and overhaul. The facilities are equipped with a dynamometer/computer diagnostic center and two sophisticated out-of-chassis FWD/RWD transmission testers.

## Student Involvement

Several student organizations exist in the department to enhance the development of special interests and talents of students. The Society of Automotive Engineers (student chapter) provides ample opportunity for professional and performance development to students seeking degrees in automotive technology management. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

## Career Opportunities

Depending on their areas of specialization, graduates have a variety of job opportunities. Career opportunities for automotive graduates frequently include employment with one of the major automotive manufacturers, as well as OEM and aftermarket suppliers. Automotive-related career paths include customer service representatives, field service engineers, product improvement specialists, engineering technicians, transportation planners, sales representatives for manufacturers and distributors, insurance claims adjusters and automotive instructors.

## Scholarships

UCM offers nearly \$5 million in merit-based scholarships to its students each year, including achievement awards for students displaying exceptional talent in the area of automotive technology.

## To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, or call 1-660-543-4439. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), its fax number is 1-660-543-4578

For admission information, call 877-SAY-UCMO (877-729-8266) or access UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Automotive Technology Management Major (Area 1 - Automotive Tech.), B.S. Degree (43-01838)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ATM 1010 Contemporary Power Systems*	3	BTE 1210 Essentials of Managing Information	2
ENGL 1020 Composition I	3	COMM 1000 Public Speaking	3
ET 1010 Applied Electricity	4	ECON 1010 Principles of Macroeconomics	3
MATH 1111 College Algebra	3	ENGL 1030 Composition II	3
<b>Semester Total</b>	<b>13</b>	MATH 1131 Applied Calc. or MATH 1300 Basic Statistics	3
		<b>Semester Total</b>	<b>14</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting or		ATM 2132 Fuel Systems & Emission Controls*	4
ACCT 2101 Principles of Financial Accounting**	3	ATM 2150 Mobile HVAC*	3
ATM 2110 Engine Theory & Maintenance*	4	ATM 3110 Automotive Engine Overhaul	4
ATM 2130 Automotive Electrical Systems*	4	CHEM 1103 Introduction to the Sciences: Chemistry	3
PHYS 1104 Introduction to the Sciences: Physics	4	PSY 1100 General Psychology	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ATM 3120 Steering and Suspension Systems*	4	ATM 3130 Computerized Engine Diagnostics*	4
ATM 3124 Automotive Braking Systems*	4	ATM 3140 Transmissions & Drivelines*	4
INDM 4210 Industrial Management or		BLAW 2720 Legal Environment of Business	3
MGT 3315 Management of Organizations**	3	CTE 3060 Technical Writing	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>17</b>
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology***	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ATM 3134 Advanced Powerplant Systems*	3	ATM 3150 Diesel Technology*	3
ATM 4032 Hydraulics & Pneumatics	3	ATM 4134 Advanced Vehicle Systems	2
MKT 3405 Marketing Policy** or		ICAP 4112 Automotive Systems for Contemporary Society*	3
HRM 3920 Human Resource Management	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Automotive Technology Management Major - Area 1 Automotive Technology, B.S. Degree Automotive Technology Option - 122 hrs**

- \*This class is only offered during the semester indicated.
- \*\*By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration. The only additional course needed is CIS 1600 (3 hours).
- \*\*\*SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

**College of Health, Science, and Technology**  
*School of Technology*

# AUTOMOTIVE TECHNOLOGY MANAGEMENT

## AREA 2: DESIGN TECHNOLOGY, BACHELOR OF SCIENCE DEGREE

Central Missouri's program in automotive technology management is designed to produce leaders to meet the increasing demand for skilled managers in industry. The School of Technology has some of the finest facilities available to prepare students for positions in automotive technology and the transportation industry. UCM students learn from experienced, highly qualified faculty members who are thoroughly familiar with the conditions and needs of modern industry and business.

The automotive technology management program provides specialized training for students entering the automotive industry in three areas of study: automotive technology, design technology, and management technology. UCM is one of only 18 institutions nationwide offering a full-range bachelor's degree in automotive technology. Central Missouri's Automotive Technology Program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### **Internships**

All automotive technology management students must complete an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are normally scheduled during the last half of an undergraduate program. Students earn from three to nine semester hours of credit upon completion of an internship. Internships are arranged through General Motors, Ford, Chrysler, Honda, Cummins and other employers.

### **Facilities and Equipment**

The T.R. Gaines Technology Building provides some of the most advanced classroom and laboratory facilities in the nation. Over one-third of the 66,000-square-foot area is devoted to the automotive technology management program. Special environmentally controlled areas include rooms devoted to fluid power instruction in hydraulics and pneumatics and for diesel fuel systems. Separate areas are designed for complete engine and transmission diagnosis and overhaul. The facilities are equipped with a dynamometer/computer diagnostic center and two sophisticated out-of-chassis FWD/RWD transmission testers.

### **Student Involvement**

Several student organizations exist in the department to enhance the development of special interests and talents of students. The Society of Automotive Engineers (student chapter) provides ample opportunity for professional and performance development to students seeking degrees in automotive technology management. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### **Career Opportunities**

Depending on their areas of specialization, graduates have a variety of job opportunities. Career opportunities for automotive graduates frequently include employment with one of the major automotive manufacturers, as well as OEM and aftermarket suppliers. Automotive-related career paths include customer service representatives, field service engineers, product improvement specialists, engineering technicians, transportation planners, sales representatives for manufacturers and distributors, insurance claims adjusters and automotive instructors.

### **Scholarships**

UCM offers nearly \$5 million in merit-based scholarships to its students each year, including achievement awards for students displaying exceptional talent in the area of automotive technology.

### **To Learn More**

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, or call 1-660-543-4439. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), its fax number is 1-660-543-4578.

For admission information, call 877-SAY-UCMO (877-729-8266) or access UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Automotive Technology Management Major (Area 2 - Design Technology), B.S. Degree (43-02838)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ATM 1010 Contemporary Power Systems*	3	CADD 1105 Basic AutoCAD	1
BTE 1210 Essentials of Managing Information	2	CADD 1110 Fundamentals of Drafting	2
ENGL 1020 Composition I	3	COMM 1000 Public Speaking	3
ET 1010 Applied Electricity	4	ECON 1010 Principles of Macroeconomics	3
MATH 1111 College Algebra	3	ENGL 1030 Composition II	3
<b>Semester Total</b>	<b>15</b>	MATH 1131 Applied Calc. or MATH 1300 Basic Statistics	3
		<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting**	3	ATM 2132 Fuel Systems & Emission Controls*	4
ATM 2110 Engine Theory & Maintenance*	4	PSY 1100 General Psychology	3
ATM 2130 Automotive Electrical Systems*	4	General Education	9
PHYS 1104: Introduction to the Sciences: Physics	4	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ATM 3120 Steering & Suspension Systems*	4	ATM 3130 Computerized Engine Diagnostics*	4
ATM 3124 Automotive Braking Systems*	4	ATM 3150 Diesel Technology*	3
CADD 2170 Introduction to Computer-Aided Drafting	2	BLAW 2720 Legal Environment of Business	3
General Education	6	CHEM 1103 Introduction to the Sciences: Chemistry	3
<b>Semester Total</b>	<b>16</b>	CTE 3060 Technical Writing	3
		<b>Semester Total</b>	<b>16</b>
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology***	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
INDM 4210 Industrial Management or MGT 3315 Management of Organizations**	3	ATM 4134 Advanced Vehicle Systems	2
ATM 3134 Advanced Powerplant Systems*	3	HRM 3920 Human Resource Management or MKT 3405 Marketing Policy**	3
ATM 4032 Hydraulics & Pneumatics	3	ICAP 4112 Automotive Systems for Contemporary Society*	3
General Education	3	Major Area 2 Elective#	4-6
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12-14</b>

**Automotive Technology Management Major - Area 2 Design Technology, B.S. Degree Design Technology Option - 120 hours**

- \*This class is offered only during the semester indicated.
- \*\*By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major, students can complete a minor in Business Administration. The only additional course needed is CIS 1600 (3 hours).
- \*\*\*SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- #See the 2011 Undergraduate Catalog for acceptable courses for Major Option Area 2 Electives. Four to six hours are required.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# AUTOMOTIVE TECHNOLOGY MANAGEMENT

## AREA 3: SERVICE MANAGEMENT, BACHELOR OF SCIENCE DEGREE

Central Missouri's program in automotive technology management is designed to produce leaders to meet the increasing demand for skilled managers in industry. The School of Technology has some of the finest facilities available to prepare students for positions in automotive technology and the transportation industry. UCM students learn from experienced, highly qualified faculty members who are thoroughly familiar with the conditions and needs of modern industry and business.

The automotive technology management program provides specialized training for students entering the automotive industry in three areas of study: automotive technology, design technology, and management technology. UCM is one of only 18 institutions nationwide offering a full-range bachelor's degree in automotive technology. Central Missouri's Automotive Technology Program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### Internships

All automotive technology management students must complete an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are normally scheduled during the last half of an undergraduate program. Students earn from three to nine semester hours of credit upon completion of an internship. Internships are arranged through General Motors, Ford, Chrysler, Honda, Cummins and other employers.

### Facilities and Equipment

The T.R. Gaines Technology Building provides some of the most advanced classroom and laboratory facilities in the nation. Over one-third of the 66,000-square-foot area is devoted to the automotive technology management program. Special environmentally controlled areas include rooms devoted to fluid power instruction in hydraulics and pneumatics and for diesel fuel systems. Separate areas are designed for complete engine and transmission diagnosis and overhaul. The facilities are equipped with a dynamometer/computer diagnostic center and two sophisticated out-of-chassis FWD/RWD transmission testers.

### Student Involvement

Several student organizations exist in the department to enhance the development of special interests and talents of students. The Society of Automotive Engineers (student chapter) provides ample opportunity for professional and performance development to students seeking degrees in automotive technology management. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### Career Opportunities

Depending on their areas of specialization, graduates have a variety of job opportunities. Career opportunities for automotive graduates frequently include employment with one of the major automotive manufacturers, as well as OEM and aftermarket suppliers. Automotive-related career paths include customer service representatives, field service engineers, product improvement specialists, engineering technicians, transportation planners, sales representatives for mass-merchandisers and distributors, insurance claims adjusters and automotive instructors.

### Scholarships

UCM offers nearly \$5 million in merit-based scholarships to its students each year, including achievement awards for students displaying exceptional talent in the area of automotive technology.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, or call 1-660-543-4439. The department's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology); its fax number is 1-660-543-4578.

For admission information, call 877-SAY-UCMO (877-729-8266) or access UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Automotive Technology Management Major (Area 3 Service Management), B.S. Degree (43-03838)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ATM 1010 Contemporary Power Systems*	3	BTE 1210 Essentials of Managing Information	2
ENGL 1020 Composition I	3	COMM 1000 Public Speaking	3
ET 1010 Applied Electricity	4	ECON 1010 Principles of Macroeconomics	3
MATH 1111 College Algebra	3	ENGL 1030 Composition II	3
<b>Semester Total</b>	<b>13</b>	MATH 1131 Applied Calc. or MATH 1300 Basic Statistics	3
		<b>Semester Total</b>	<b>14</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting**	3	ATM 2132 Fuel Systems & Emission Controls*	4
ATM 2110 Engine Theory*	4	BLAW 2720 Legal Environment of Business	3
ATM 2130 Automotive Electrical Systems*	4	CHEM 1103 Introduction to the Sciences: Chemistry	3
PHYS 1104: Introduction to the Sciences: Physics	4	PSY 1100 General Psychology	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>16</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ATM 3120 Steering & Suspension Systems*	4	ATM 3130 Computerized Engine Diagnostics*	4
ATM 3124 Automotive Braking Systems*	4	ATM 3150 Diesel Technology*	3
INDM 4210 Industrial Management or MGT 3315 Management of Organizations**	3	CTE 3060 Technical Writing	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>

<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>
SOT 3022 Internship in Technology***	3
<b>Semester Total</b>	<b>3</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ATM 3134 Advanced Powerplant Systems*	3	ATM 4134 Advanced Vehicle Systems	2
ATM 4032 Hydraulics & Pneumatics	3	ICAP 4112 Automotive Systems for Contemporary Society*	3
MKT 3405 Marketing Policy** or HRM 3920 Human Resource Management	3	Major Option Area 3 Electives#	6
Major Option Area 3 Elective#	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Automotive Technology Management Major - Area 3 Service Management, B.S. Degree Service Management Option - 120 hrs**

- \*This class is only offered the semester indicated.
- \*\*By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration. The only additional course needed is CIS 1600 (3 hours).
- \*\*\*SOT 3022 Internship (3.0 hrs) should be completed in the summer of the Junior/Senior year.
- #See 2011 Undergraduate Catalog for a listing of the approved elective courses within Option Area 3 of the major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## Harmon College of Business and Professional Studies

Department of Aviation

# AVIATION MAINTENANCE MANAGEMENT

2+2 MAJOR, BACHELOR OF SCIENCE DEGREE

The Aviation Maintenance Management option is a 2+2 program for students that have earned an Associate Degree in a related field and have an FAA Airframe and Powerplant rating. This program will allow them to complete their BS degree requirements at the University of Central Missouri in Aviation Maintenance Management. The mission of the Aviation Maintenance Management program is to prepare students for supervisory roles in airline, corporate, and general aviation maintenance departments.

Graduates of the BS in Aviation with an option in Aviation Maintenance Management will be able to:

- Interpret and analyze financial statements and control concepts
- Develop and use accounting and budgetary data to assist management in decision making and control activities
- Design, function, and operate aircraft systems
- Apply techniques to effectively and efficiently manage a corporate or airline aircraft maintenance department
- Understand the nature and sources of law and legal problems encountered by managers

- Have an understanding of airframe structures including wood and sheet metal structures.
- Diagnose, trouble-shoot, and repair powerplant systems and components
- Diagnose, trouble-shoot, and repair airframe systems and components
- Apply engine theory and maintenance techniques to reciprocating and turbine engine systems
- Have knowledge of aircraft communication systems
- Use safety protocols appropriate to working with hazardous chemicals.
- Apply principles of management and supervision to the aviation maintenance field

### Student Involvement

Several student organizations exist in the department to enhance the development of special interests and talents of students. Alpha Eta Rho, a national aviation fraternity, is dedicated to the professional development of students majoring in aviation. A Chapter of Women in Aviation International (WAI) is a professional organization that promotes training and career awareness.

The Intercollegiate Flight Team, which promotes excellence in flight performance, competes at both regional and national levels.

### Career Opportunities

Depending on interests and areas of specialization, graduates have a variety of job opportunities. Careers for aviation maintenance management graduates include those with airlines or corporate flight departments, general aviation, and military.

### To Learn More

For more information about programs in aviation at UCM, write to the Department of Aviation, UCM, Warrensburg, MO 64093, call 660-543-4969, or visit the department's web site at [www.ucmo.edu/aviation](http://www.ucmo.edu/aviation). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Aviation Maintenance Management 2+2 Major, B.S. Degree (43-562)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4042 Aviation Maintenance Management	3	AVIA 4090 Aviation Law	3
LIS 1600 University Library & Research Skills or BTE 1210 Essentials of Managing Information	2	ECON 1010 Principles of Macroeconomics	3
ENGL 1030 Composition II	3	MATH 1131 Applied Calculus	3
Non-lab, non-Physics Gen Ed science course	3	MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3
General Education*	6	Major Elective	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4500 Aviation Safety	3	AVIA 4430 Corporate Aviations	3
CTE 3060 Technical Writing or MGT 3325 Business Communications	3	COMM 3010 Interpersonal Communications	3
GEOG 3201 Cultural Landscape	3	ICAP 4113 Air Operations Management	3
Major Elective	3	Major Elective	2
General Education*	3	General Education*	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Aviation Maintenance Management 2+2, B.S. Degree - 120 hours**

- \*The number of general education hours remaining for the degree will depend on the amount of general education completed as part of the Associates degree earned. UCM requires 48 hours of General Education.
- A two-year technology related Associate in Aviation Maintenance from an accredited community college or technical institute in this field of study will be accepted for admission into this program.
- You must have your Airframe and Powerplant Certificate for admission into this program.
- Forty-two hours of the degree transferred should apply toward the major and the remainder towards General Education. The General Education requirements transferred must be equivalent to UCM's requirements.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Aviation

# AVIATION MANAGEMENT

## OPTION 1: AIRPORT MANAGEMENT, BACHELOR OF SCIENCE DEGREE

The mission of the Airport Management program is to provide students the education and experience needed to be a part of the airport management team. This program emphasizes the business, planning, and personnel management background needed to be successful in this career area. This program is accredited by the Aviation Accreditation Board International (AABI).

### Internships

Aviation students are required to participate in an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are normally scheduled during the last half of an undergraduate program. Students earn from one to nine semester hours of credit upon completion of an internship. Internships may be arranged with airports or government agencies depending on interests and career goals of students.

### Facilities and Equipment

The Department of Aviation has some of the finest facilities available to prepare students for positions in aviation both on campus and at UCM's Max B. Swisher Skyhaven Airport.

Airport management students are required to take Private Flight A to experience airports from the perspective of pilots.

### Student Involvement

Several student organizations exist in the department to enhance the development of special interests and talents of students. Students who are interested in airport management can join the local chapter of the American Association of Airport Executives. Alpha Eta Rho, a national aviation fraternity, is dedicated to the professional development of students majoring in aviation. A Chapter of Women in Aviation International (WAI) is a professional organization that promotes training and career awareness.

### Special Services

A number of special aviation services are offered at Central Missouri, including an introductory course in aeronautics. Special training programs and classes are also taught by UCM faculty to serve the aviation industry. FAA computerized tests with immediate results are available through the department's LaserGrade testing center. Pilot flight checks are administered by university personnel.

### Career Opportunities

Depending on their interests airport management graduates have a variety of job opportunities. Careers in airport management include airport planning and design, airport operations, airport marketing and airport manager just to mention a few. A variety of government positions are also available in the airports division of FAA.

### Scholarships

In addition to nearly \$5 million in scholarships provided through a variety of merit-based university scholarship programs, the Department of Aviation also offers an Achievement Award for students displaying exceptional talent in aviation areas.

### To Learn More

For more information about programs in aviation at UCM, write to the Department of Aviation, UCM, Warrensburg, MO 64093, call 660-543-4969, or visit the department's web site at [www.ucmo.edu/aviation](http://www.ucmo.edu/aviation). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Aviation Management Major (Option 1: Airport Management), B.S. Degree (43-552)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 1020 Aeronautics	2	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	CADD 1105 Basic AutoCAD	1
MATH 1111 College Algebra	3	CADD 1110 Fundamentals of Drafting	2
General Education	6	PHYS 1104 Introduction to the Sciences: Physics	4
<b>Semester Total</b>	<b>14</b>	General Education	6
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting**	3	AVIA 1320 Private Flight A	1
BLAW 2720 Legal Environment of Business	3	COMM 2620 Public Relations	3
MATH 1131 Applied Calculus	3	CTE 3060 Technical Writing	3
PR&T 3010 Transportation Systems	3	FIN 2801 Business Statistics I	3
General Education	3	LIS 1600 University Library & Research Skills or BTE 1210 Essentials of Managing Information**	2
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4040 Aviation Management	3	AVIA 4010 Aerodynamics	3
ECON 1010 Principles of Macroeconomics	3	FIN 3850 Principles of Finance	3
CADD 2170 Introduction to Computer-Aided Drafting	2	MGT 3315 Management of Organizations or INDM 4210 Industrial Management**	3
MKT 3405 Marketing Policy	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		
<b>Summer - Between Junior/Senior Year</b>	<b>Hrs.</b>		
SOT 3022 Internship	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4310 Air Traffic Control	2	AVIA 4045 Airport Management	3
AVIA 4500 Aviation Safety	3	AVIA 4090 Aviation Law	3
GEOG 4265 Urban Geography	3	AVIA 4330 Sport Aviation	2
HRM 3920 Human Resource Management	3	AVIA 4420 Air Transportation	3
SAFE 3000 Principles of Accident Causation	3	ICAP 4113 Air Operations Management	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>

**Aviation Management Major (Option 1: Airport Management), B.S. Degree - 120 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- \*\*Students are encouraged to consider adding a Business Administration minor. If interested in the minor option, students should take ACCT 2101 instead of ACCT 2100, BTE 1210 instead of LIS 1600, and MGT 3315 instead of INDM 4210. In addition, CIS 1600 would be needed to complete the minor.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Aviation

# AVIATION MANAGEMENT

## OPTION 2: FLIGHT OPERATIONS MANAGEMENT, BACHELOR OF SCIENCE DEGREE

The Department of Aviation offers a Bachelor of Science degree in Flight Operations Management. The mission of the Flight Operations Management Program is to provide students the education and experience needed to work in the flight operations division of an airline or other aviation related company. This program has been accredited by the Aviation Accreditation Board International (AABI).

### Internships

Aviation students may apply for an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are normally scheduled during the last half of an undergraduate program or during graduate work. Students earn from one to nine semester hours of credit upon completion of an internship. Internships may be arranged with airlines, manufacturers, airports or government agencies depending on interests and career goals of students.

### Facilities and Equipment

The Department of Aviation has some of the finest facilities available to prepare students for positions in aviation both on campus and at UCM's Max B. Swisher Skyhaven Airport. The university owns 26 flight-ready aircraft including: a fleet of Cessna 172 Skyhawks, multi-engine aircraft, and gliders are available for flight training. In addition, the university has a hot-air balloon,

which may be used to earn a rating. The department's flight simulation equipment includes several general aviation flight training devices: a single engine, a single/multi engine both with visual systems and advanced aviation training devices.

### Student Involvement

Several student organizations exist in the department to enhance the development of special interests and talents of students. Alpha Eta Rho, a national aviation fraternity, is dedicated to the professional development of students majoring in aviation. A Chapter of Women in Aviation International (WAI) is a professional organization that promotes training and career awareness.

The Intercollegiate Flight Team, which promotes excellence in flight performance, competes at both regional and national levels. Students who are interested in airport management can join the local chapter of the American Association of Airport Executives.

### Special Services

A number of special aviation services are offered at Central Missouri, including an introductory course in aeronautics and a summer aerospace education class for elementary and secondary teachers. Special training programs and classes are also taught by UCM faculty to serve the aviation industry. FAA computerized tests with immediate

results are available through the department's LaserGrade testing center.

### Career Opportunities

Depending on their interests and areas of specialization, graduates have a variety of job opportunities. Careers for flight operations management graduates include those with airline or corporate flight departments, general aviation and military.

### Scholarships

In addition to nearly \$5 million in scholarships provided through a variety of merit-based university scholarship programs, the Department of Aviation also offers an Achievement Award for students displaying exceptional talent in aviation areas.

### To Learn More

For more information about programs in aviation at UCM, write to the Department of Aviation, UCM, Warrensburg, MO 64093, call 660-543-4969, or visit the department's web site at [www.ucmo.edu/aviation](http://www.ucmo.edu/aviation). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Aviation Management Major (Option 2: Flight Operations Management), B.S. Degree (43-553)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 1020 Aeronautics	2	ACCT 2100 Survey of Financial Accounting**	3
AVIA 1310 FAA Private Requirement	4	AVIA 1321 Private Flight B	1
AVIA 1320 Private Flight A	1	ECON 1010 Principles of Macroeconomics	3
BTE 1210 Essentials of Managing Information or LIS 1600 University Library & Research Skills**	2	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	MATH 1111 College Algebra	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 3313 Instrument Flight A	1	AVIA 4350 Aviation Weather or EASC 3114 Meteorology	3
AVIA 3314 Instrument Flight B	1	CTE 3060 Technical Writing	3
AVIA 3325 FAA Instrument Requirement	4	PHYS 1104 Introduction to the Sciences: Physics	4
BLAW 2720 Legal Environment of Business	3	General Education	6
PR&T 3010 Transportation Systems	3	<b>Semester Total</b>	<b>16</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4010 Aerodynamics	3	AVIA 4310 Air Traffic Control	2
AVIA 4500 Aviation Safety	3	FIN 2801 Business Statistics	3
HRM 3920 Human Resource Management	3	MGT 3315 Management of Organizations or INDM 4210 Industrial Management**	3
MATH 1131 Applied Calculus	3	General Education	6
MKT 3405 Marketing Policy	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4040 Aviation Management	3	AVIA 4380 Flight Operations Management	3
AVIA 4090 Aviation Law	3	FIN 3850 Principles of Finance	3
AVIA 4420 Air Transportation	3	ICAP 4113 Air Operations Management	3
AVIA 4430 Corporate Aviation Management	3	General Education	3
General Education	3	Free Choice Electives*	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Aviation Management Major (Option 2: Flight Operations Management), B.S. Degree – 120 hours**

- \*Students are encouraged to consider adding a Business Administration minor. If interested in the minor option, students should take ACCT 2101 instead of ACCT 2100, BTE 1210 instead of LIS 1600, and MGT 3315 instead of INDM 4210. In addition, CIS 1600 would be needed to complete the minor.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

**College of Health, Science, and Technology**  
*School of Environmental, Physical, and Applied Sciences*

# BIOCHEMISTRY

## BACHELOR OF SCIENCE DEGREE

The future depends greatly on how people solve the world's problems, and problem solving is what chemists and physicists do best. From medicinal chemistry to research in superconductivity, there are abundant opportunities in the sciences. The programs offered by the Department of Biochemistry, Chemistry & Physics at the University of Central Missouri prepare students for many rewarding cutting-edge careers.

The biochemistry, chemistry, and physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience. Students with a major in biochemistry receive extensive state of the art, hands-on experience with instrumentation, such as UV-Visible, FTIR, and FTNMR spectroscopy; chromatography (GC/MS/MS/HPLC); calorimetry; fluorometry; electrochemical analysis and others.

### Accreditation

The bachelor of science major in Biochemistry is accredited by the American Chemical Society.

### About the Faculty

Active research, workshop and seminar participation keep physics and chemistry faculty current in the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in UCM's Department of Biochemistry, Chemistry & Physics have earned doctorates in their fields of expertise.

The department's caring and experienced faculty provide individualized attention for their

students, and the university's low student-to-faculty ratio allows for such personalized activity. Classroom learning is reinforced through practical laboratory experiences, where the use of instrumentation is emphasized.

### Facilities

The Department of Biochemistry, Chemistry & Physics is located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

### Career Opportunities

Biochemistry is a common and well-suited major for many of the preprofessional programs (medicine, dentistry, veterinary, pharmacy, optometry) and also qualifies graduates to work as teachers or as chemists in industry and government. Biochemistry students are provided very attractive financial assistance should they choose to continue their studies at the graduate level. Graduate studies in biochemistry, analytical, organic, inorganic, chemical education, petroleum and pharmaceutical chemistry are among the numerous options available.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The

Society of Physics Students and the American Chemical Society provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside of the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities. Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma or Beta Beta Beta.

Biochemistry, chemistry, and physics students are considered for employment as laboratory or department assistants after completion of a minimum amount of training and study. This opportunity provides students with valuable teaching, research and technical experience.

The Department of Biochemistry, Chemistry & Physics collaborates with the Departments of Criminal Justice and Biology and Earth Science to offer a minor in forensic science. Graduates completing the minor will be able to complete DNA testing and analyze trace evidence as entry level laboratory personnel.

### To Learn More

For more information write to the Department of Biochemistry, Chemistry & Physics, UCM, Warrensburg, MO 64093, call 660-543-4948, or visit the department's web site at [www.ucmo.edu/chemphys](http://www.ucmo.edu/chemphys).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Biochemistry Major, B.S. Degree (43-295)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I	5	BIOL 1110 Principles of Biology	3
ENGL 1020 Composition I	3	CHEM 1132 General Chemistry II	5
MATH 1151 Calculus & Analytical Geometry I	5	ENGL 1030 Composition II	3
<b>Semester Total</b>	<b>13</b>	General Education	5
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2512 Cell Biology	3	CHEM 3212 Quantitative Analysis	3
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 or PHYS 2121 or PHYS 2123/1123	4-5	PHYS 1102 or PHYS 2122 or PHYS 2124/1124	4-5
General Education	3	General Education	3
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>14-15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2511 Genetics	4	BIOL 4514 Molecular Biology	3
CHEM 4531 Physical Chemistry: Thermo. & Kinetics**	4	BIOL 4515 Molecular Technology Laboratory	2
General Education	6	CHEM 3920 Communication Skills in Chemistry**	2
Free Choice Electives***	2	BIOL/CHEM Major Electives#	2-4
<b>Semester Total</b>	<b>16</b>	General Education	6
		<b>Semester Total</b>	<b>15-17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3421 Intermediate Biochemistry	3	CHEM 4421 Advanced Biochemistry	3
BIOL/CHEM Major Electives#	2-4	CHEM 4431 Biochemistry Laboratory	2
General Education	9	Free Choice Electives***	9-11
<b>Semester Total</b>	<b>14-16</b>	<b>Semester Total</b>	<b>14-16</b>

**Biochemistry Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Upper level chemistry courses offered variably check department for actual offerings.
- \*\*\*BIOL 1111/1112 should be taken as free choice electives if students are pre-medical, pre-dental, or pre-pharmacy students.
- #See the 2011 Undergraduate Catalog for a listing of appropriate Major Electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE, AREA 1: GENERAL BIOLOGY

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

Students in the program gain analytical and laboratory skills that prepare them for entry-level positions in a variety of biologically related areas, including biotechnology, laboratory and/or field research, health science, wildlife biology, ecology, and conservation work. Students may also continue their education in professional schools in medicine, veterinary science, dentistry, or medical technology, or in graduate programs that focus on some aspect of biological science, such as genetics, microbiology, immunology, ecology, environmental health, or cell and molecular biology.

Students majoring in Biology generally have a strong interest in living things and in the questions pertaining to the functions of life itself. They concern themselves with how living things survive, with how they affect each other and their environments; with food, physiology, energy, growth reproduction and maintenance processes. Generally, professionals in this field are responsible for the recognition and investigation of biological problems and the various applications of theory to these problems. Many biologists also seek careers in public health, biotechnology, industry, ecology, conservation work, wildlife biology, law, research and education.

Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. A new molecular biology research and teaching facility allows use of molecular techniques in courses and new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure-track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter; for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife

conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

### Pertle Springs

In addition to the extensive laboratory facilities in the W.C. Morris Science Building, UCM owns Pertle Springs, a 300-acre park a mile from the main campus. A unique natural laboratory for research and field experiences, Pertle Springs also serves as a campus recreation area. UCM also maintains a small astronomical observatory at Pertle Springs featuring a computer-controlled telescope with imaging capabilities and specialized auxiliary equipment. Each year The Wildlife Society sponsors BioBlitz, an annual gathering at Pertle Springs that focuses on surveying natural areas, birds, fish, fungi, mammals, insects, reptiles, and amphibians.

### To Learn More

For more information, write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science Web pages may be accessed through UCM's site.

**Biology Major (Area 1: General Biology), B.S. Degree (43-01380)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
BIOL 1000 The Discipline of Biology		1	BIOL 1111 Plant Biology		4
BIOL 1110 Principles of Biology		3	ENGL 1020 Composition I		3
General Education		11-12	General Education		9
<b>Semester Total</b>		<b>15-16</b>	<b>Semester Total</b>		<b>16</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
BIOL 1112 Animal Biology		4	BIOL 2020 General Ecology		3
CHEM 1131 General Chemistry I		5	CHEM 1132 General Chemistry II		5
ENGL 1030 Composition II		3	General Education		6
General Education		3	<b>Semester Total</b>		<b>14</b>
<b>Semester Total</b>		<b>15</b>			

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
BIOL 2511 Genetics		4	BIOL 4013 Introductory Experimental Design & Analysis		3
BIOL 3712 Field Natural History		4	BIOL 4102 Evolution		3
General Education		3	Free Choice Electives		9
Free Choice Electives		5	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>16</b>			

<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs</b>
BIOL 3431 Animal Physiology or BIOL 4411 Plant Phys.		4	ICAP 4222 The Biological Perspective		3
BIOL 4000 Biology Colloquium		1	Free Choice Electives		12
Free Choice Electives		9	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>14</b>			

**Biology Major (Area 1: General Biology), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE, AREA 2: ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

Students in the program gain analytical and laboratory skills that prepare them for entry-level positions in a variety of biologically related areas, including biotechnology, laboratory and/or field research, health science, wildlife biology, ecology, and conservation work. Students may also continue their education in professional schools in medicine, veterinary science, dentistry, or medical technology, or in graduate programs that focus on some aspect of biological science, such as genetics, microbiology, immunology, ecology, environmental health, or cell and molecular biology.

Students majoring in Biology generally have a strong interest in living things and in the questions pertaining to the functions of life itself. They concern themselves with how living things survive, with how they affect each other and their environments; with food, physiology, energy, growth reproduction and maintenance processes. Generally, professionals in this field are responsible for the recognition and investigation of biological problems and the various applications of theory to these problems. Many biologists also seek careers in public health, biotechnology, industry, ecology, conservation work, wildlife biology, law, research and education.

Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. A new molecular biology research and teaching facility allows use of molecular techniques in courses and new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure-track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter; for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife

conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

### Pertle Springs

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### To Learn More

For more information, write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science Web pages may be accessed through UCM's site.

**Biology Major (Area 2: Ecology & Evolutionary Biology), B.S. Degree (43-02380)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
CHEM 1131 General Chemistry I	5	BIOL 4102 Evolution	3
ENGL 1030 Composition II	3	CHEM 1132 General Chemistry II	5
General Education	3	General Education	5-6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16-17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4709 Plant Ecology	4	BIOL 4013 Introductory Experimental Design & Analysis	3
General Education	6	BIOL 4711 Animal Ecology	4
Free Choice Electives	5	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	BIOL Major Area Electives*	4
BIOL Major Area Electives*	4	ICAP 4222 The Biological Perspective	3
Major Area Electives*	3	Free Choice Electives	8
Free Choice Elective	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		

**Biology Major (Area 2: Ecology & Evolutionary Biology), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE, AREA 3: WILDLIFE AND NATURAL RESOURCE CONSERVATION

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

Students in the program gain analytical and laboratory skills that prepare them for entry-level positions in a variety of biologically related areas, including biotechnology, laboratory and/or field research, health science, wildlife biology, ecology, and conservation work. Students may also continue their education in professional schools in medicine, veterinary science, dentistry, or medical technology, or in graduate programs that focus on some aspect of biological science, such as genetics, microbiology, immunology, ecology, environmental health, or cell and molecular biology.

Students majoring in Biology generally have a strong interest in living things and in the questions pertaining to the functions of life itself. They concern themselves with how living things survive, with how they affect each other and their environments; with food, physiology, energy, growth reproduction and maintenance processes. Generally, professionals in this field are responsible for the recognition and investigation of biological problems and the various applications of theory to these problems. Many biologists also seek careers in public health, biotechnology, industry, ecology,

conservation work, wildlife biology, law, research and education.

Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. A new molecular biology research and teaching facility allows use of molecular techniques in courses and new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure-track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter;

for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

### Pertle Springs

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### To Learn More

For more information, write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science Web pages may be accessed through UCM's site.

**Biology Major (Area 3: Wildlife & Natural Resource Conservation), B.S. Degree (43-03380)**

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<b>Freshman Year</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> -Spring Semester	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
ENGL 1030 Composition II	3	BIOL 4102 Evolution**	3
Physical Science Major Area Elective*	5	Physical Science Major Area Elective*	4
General Education	3	General Education	5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
BIOL 3711 Plant Identification	4	BIOL 4013 Introductory Experimental Design & Analysis or	
General Education	6	MATH 1300 Basic Statistics	3
Free Choice Electives	6	Wildlife & Habitat Biology Major Area Elective*	4
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	6
		<b>Semester Total</b>	<b>13</b>

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 The Biological Perspective	3
Wildlife Management & Conservation Major Area Electives*	6	Wildlife & Habitat Biology Major Area Elective*	4
Free Choice Elective	9	Free Choice Electives	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

**Biology Major (Area 3: Wildlife & Natural Resource Conservation), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives.
- \*\*Instead of BIOL 4102 (a 3 hour option) students may also opt to take an 8 or 9 hour option consisting of BIOL 2511 Genetics (4 hours) with either CHEM 1104 (4 hours) or CHEM 1131 (5 hours). If this is chosen CHEM 1104 or CHEM 1131 will fulfill 3 hours of science general education. The number of free choice electives will vary depending on choices made.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE, AREA 4: INTEGRATIVE BIOLOGY, PLANT BIOLOGY EMPHASIS

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

Students in the program gain analytical and laboratory skills that prepare them for entry-level positions in a variety of biologically related areas, including biotechnology, laboratory and/or field research, health science, wildlife biology, ecology, and conservation work. Students may also continue their education in professional schools in medicine, veterinary science, dentistry, or medical technology, or in graduate programs that focus on some aspect of biological science, such as genetics, microbiology, immunology, ecology, environmental health, or cell and molecular biology.

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conservation work, wildlife biology, law, research and education.

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In addition to a wide range of academic and professional experiences, all tenure-track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

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for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

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### To Learn More

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**Biology Major (Area 4: Integrative Biology, Plant Biology Emphasis), B.S. Degree (43-04380)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2020 General Ecology	3	BIOL 3711 Plant Identification	4
BIOL 2512 Cell Biology	3	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I	5	General Education	6
ENGL 1030 Composition II	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2511 Genetics	4	BIOL 4102 Evolution	3
PHYS 1101 College Physics I	4	BIOL 4709 Plant Ecology	4
General Education	3	Major Area Electives*	3-4
Free Choice Electives**	5	General Education	5
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15-16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4411 Plant Physiology	4	ICAP 4222 The Biological Perspective	3
BIOL 4000 Biology Colloquium	1	Major Area Elective*	3
Free Choice Electives***	10-11	Free Choice Electives**	9
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

**Biology Major (Area 4: Integrative Biology, Plant Biology Emphasis), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives for the Plant Biology Emphasis.
- \*\*The number of free choice electives required will depend on selections made in the major and general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE, AREA 4: INTEGRATIVE BIOLOGY, ANIMAL BIOLOGY EMPHASIS

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

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### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter;

for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

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### To Learn More

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**Biology Major (Area 4: Integrative Biology, Animal Biology Emphasis), B.S. Degree (43-04380)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1112 Animal Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2020 General Ecology	3	BIOL 3211 Comparative Anatomy	4
BIOL 2512 Cell Biology	3	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I	5	General Education	8
ENGL 1030 Composition II	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>14</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2511 Genetics	4	BIOL 4102 Evolution	3
PHYS 1101 College Physics I	4	Major Area Electives*	3
General Education	6	Free Choice Electives**	10
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3431 Animal Physiology	4	BIOL 4711 Animal Ecology	4
BIOL 4000 Biology Colloquium	1	ICAP 4222 The Biological Perspective	3
Free Choice Electives**	9-11	Major Area Electives*	3-5
<b>Semester Total</b>	<b>14-16</b>	Free Choice Electives**	4
		<b>Semester Total</b>	<b>14-15</b>

**Biology Major (Area 4: Integrative Biology, Animal Biology Emphasis), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives.
- \*\*The number of free choice electives required will depend on selections made in the major and general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE, AREA 5: BIOMEDICAL/CELLULAR AND MOLECULAR BIOLOGY

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

Students in the program gain analytical and laboratory skills that prepare them for entry-level positions in a variety of biologically related areas, including biotechnology, laboratory and/or field research, health science, wildlife biology, ecology, and conservation work. Students may also continue their education in professional schools in medicine, veterinary science, dentistry, or medical technology, or in graduate programs that focus on some aspect of biological science, such as genetics, microbiology, immunology, ecology, environmental health, or cell and molecular biology.

Students majoring in Biology generally have a strong interest in living things and in the questions pertaining to the functions of life itself. They concern themselves with how living things survive, with how they affect each other and their environments; with food, physiology, energy, growth reproduction and maintenance processes. Generally, professionals in this field are responsible for the recognition and investigation of biological problems and the various applications of theory to these problems. Many biologists also seek careers in public health, biotechnology, industry, ecology,

conservation work, wildlife biology, law, research and education.

Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. A new molecular biology research and teaching facility allows use of molecular techniques in courses and new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure-track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter;

for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

### Pertle Springs

In addition to the extensive laboratory facilities in the W.C. Morris Science Building, UCM owns Pertle Springs, a 300-acre park a mile from the main campus. A unique natural laboratory for research and field experiences, Pertle Springs also serves as a campus recreation area. UCM also maintains a small astronomical observatory at Pertle Springs featuring a computer-controlled telescope with imaging capabilities and specialized auxiliary equipment. Each year The Wildlife Society sponsors BioBlitz, an annual gathering at Pertle Springs that focuses on surveying natural areas, birds, fish, fungi, mammals, insects, reptiles, and amphibians.

### To Learn More

For more information, write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science Web pages may be accessed through UCM's site.

**Biology Major (Area 5: Biomedical/Cellular & Molecular Biology), B.S. Degree (43-05380)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology or BIOL 1112 Animal Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2511 Genetics	4	CHEM 1132 General Chemistry II	5
BIOL 2512 Cell Biology	3	Major Area Electives*	3-4
CHEM 1131 General Chemistry I	5	General Education	8
ENGL 1030 Composition II	3	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4514 Molecular Biology	3	BIOL 3611 Microbiology	4
PHYS 1101 College Physics I	4	Major Area Electives*	5
General Education	6	Free Choice Electives**	6
Free Choice Electives**	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3431 Animal Physiology or BIOL 4411 Plant Phys.	4	ICAP 4222 The Biological Perspective	3
BIOL 4000 Biology Colloquium	1	Free Choice Electives**	12
Free Choice Electives**	9-10	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14-15</b>		

**Biology Major (Area 5: Biomedical/Cellular & Molecular Biology), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives.
- \*\* The number of free choice electives required will depend on selections made in the major and general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

BACHELOR OF SCIENCE DEGREE, AREA 6: PRE-MED., PRE-DENTAL, PRE-VET

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Science in Education degree. Majors complete a core of courses which provide an understanding of biological principles. Upper-division courses provide integration, in-depth study, and an opportunity for specialization within the different degree emphases.

Students in the program gain analytical and laboratory skills that prepare them for entry-level positions in a variety of biologically related areas, including biotechnology, laboratory and/or field research, health science, wildlife biology, ecology, and conservation work. Students may also continue their education in professional schools in medicine, veterinary science, dentistry, or medical technology, or in graduate programs that focus on some aspect of biological science, such as genetics, microbiology, immunology, ecology, environmental health, or cell and molecular biology.

Students majoring in Biology generally have a strong interest in living things and in the questions pertaining to the functions of life itself. They concern themselves with how living things survive, with how they affect each other and their environments; with food, physiology, energy, growth reproduction and maintenance processes. Generally, professionals in this field are responsible for the recognition and investigation of biological problems and the various applications of theory to these problems. Many biologists also seek careers in public health, biotechnology, industry, ecology,

conservation work, wildlife biology, law, research and education.

Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. A new molecular biology research and teaching facility allows use of molecular techniques in courses and new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure-track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter;

for students interested in science education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

### Pertle Springs

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### To Learn More

For more information, write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science Web pages may be accessed through UCM's site.

**Biology Major (Area 6: Pre-Med, Pre-Dental, Pre-Vet), B.S. Degree (43-06380)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1112 Animal Biology	4
BIOL 1110 Principles of Biology	3	CHEM 1131 General Chemistry I	5
General Education	9	ENGL 1020 Composition I	3
<b>Semester Total</b>	<b>13</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2511 Genetics	4	PHYS 1101 College Physics I	4
BIOL 2512 Cell Biology	3	Major Area Electives*	4
CHEM 1132 General Chemistry II	5	General Education	8
ENGL 1030 Composition II	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology	4	BIOL 3211 Comparative Anatomy	4
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
General Education	6	General Education	3
Free Choice Electives	3	Free Choice Electives	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>14</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3431 Animal Physiology	4	ICAP 4222 The Biological Perspective	3
BIOL 4000 Biology Colloquium	1	General Education	3
Major Area Electives*	4	Free Choice Electives	9
Free Choice Electives	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Biology Major (Area 6: Pre-Med, Pre-Dental, Pre-Vet), B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for list of appropriate major area electives.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE DEGREE - AREA 7: CONSERVATION ENFORCEMENT

The Bachelor of Science degree in Biology with an area in Conservation Enforcement is one of the programs offered by the Department of Biology and Earth Science at University of Central Missouri and provides a solid foundation for careers in these scientific disciplines.

### Conservation Enforcement

Conservation enforcement studies provide majors with the essential education to manage, conserve, and protect fish and wildlife, and the land and water environments. In addition to acquiring a knowledge of law enforcement and natural resource management, students develop the skills in persuasion and leadership necessary to deal with the confrontational situations conservation officers frequently face.

Graduates may be employed as aquaculturists, biological aides, conservation educators, environmental impact assessors, field crew leaders, field or laboratory technicians, natural resources law enforcement officers, park rangers, or preserve management assistants. They are hired by state and federal natural

resources agencies, private consulting firms, and conservation organizations. Graduates may also start their careers with overseas assignments in the Peace Corps.

### Student Involvement

Students may participate in a wide variety of field-based research projects, student organizations and the department's seminar series to add an extra dimension to their study of science at UCM. Student organizations include Para-Medico for students interested in careers in allied health areas, the Pre-Vet Club for those pursuing careers in animal care, and Beta Beta Beta, the department's honor society. In addition, Biology Club fosters interaction in professional as well as social settings among students and faculty, hosts lectureships, helps with area public school and community activities, and engages in rock climbing, canoeing, and other adventures.

### Pertle Springs

In addition to the extensive laboratory facilities in the W.C. Morris Science Building, UCM owns Pertle Springs, a 300-acre park a mile from the main campus. A unique natural laboratory for research and field experiences, Pertle Springs also serves as a campus recreation area. The department operates Nature Central there as an environmental education center. UCM also maintains a small astronomical observatory at Pertle Springs featuring a computer-controlled telescope with imaging capabilities and specialized auxiliary equipment.

### To Learn More

For more information write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page on the web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science web pages may be accessed through UCM's site.

**Biology Major (Area 7: Conservation Enforcement), B.S. Degree (43-383)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	CJ 1000 Introduction to Criminal Justice	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	6	General Education	5
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
CTE 3060 Technical Writing	3	Major Electives*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3711 Plant Identification	4	CJ 3303 Criminal Procedure	3
COMM 2620 Public Relations	3	General Education	3
CJ 2300 Criminal Law	3	Free Choice Electives**	9
General Education	3	<b>Semester Total</b>	<b>15</b>
Free Choice Electives**	3		
<b>Semester Total</b>	<b>16</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 The Biological Perspective	3
CJ 4302 Criminal Evidence	3	Major Electives*	4
Major Electives*	3	Free Choice Electives**	9
Free Choice Electives**	7	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>14</b>		

**Biology Major (Area 7: Conservation Enforcement), B.S. Degree - 120 hours**

- \*See catalog for choices to fulfill this area.
- \*\*The number of free choice electives required will depend on selections made in the major and general education.
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## College of Health, Science, and Technology

Department of Biology and Earth Science

# BIOLOGY

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

A Bachelor of Science in Education degree with a major in Biology, provides unified science certification to teach any of the beginning sciences, and all levels of biology or earth science, grades 9-12. All teacher education programs are accredited by the National Council for Accreditation of Teacher Education. The curriculum offers the student the opportunity to develop a strong foundation in chemistry, physics and earth science.

### About the Faculty

Biology and Earth Science classes are taught by experienced faculty members who believe in individualized attention for students. Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. Recently, a new molecular biology research and teaching facility was constructed. Four new faculty members use molecular techniques in their courses and have developed new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Career Opportunities

Graduates of this program will find potential employers very eager to recruit and retain them as teachers. In addition, museums, zoos and nature centers also hire educators, who

have strong background in biology to design exhibitions, lead nature hikes in wild areas and plan educational programs.

Students who successfully complete UCM's science programs have a wide variety of opportunities available to them. They can develop a program of study preparing them for careers in systematics, ecology, conservation, physiology, cell biology, genetics and geology. With the appropriate preparation, students may become biology or earth science teachers, conservation agents or medical technologists. In addition, they may become qualified for admittance to graduate programs in biology and geology, and the professional schools of medical, veterinary, dental and physical therapy occupations.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals.

Student organizations include Para-Medico for students interested in careers in allied health areas; the Pre-Vet Club for those pursuing careers in animal care; Beta Beta Beta, the department's Biology honor society; National Science Teachers Association Student Chapter; for students interested in science

education techniques; the Wildlife Society, for students interested in ecological concerns and wildlife conservation; American Fisheries Society, for students interested in aquatic sciences; and Geology Club, to provide a greater understanding of the science of geology.

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### To Learn More

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**Biology Major, B.S. in Ed. Degree (41-487)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1112 Animal Biology	4
<b><i>BIOL 1111 Plant Biology</i></b>	4	<b><i>CHEM 1131 Chemistry I</i></b>	5
<b><i>EASC 1004 Intro. to the Sciences: Geology</i></b>	4	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	POLS 1510 American Government	3
<b><i>General Education MATH</i></b>	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2511 Genetics	4	BIOL 2020 General Ecology	3
BIOL 2512 Cell Biology	3	PHYS 1101 Physics I (4) or	
EDFL 2100 Foundations of Education	2	PHYS 1104 Introduction to Sciences: Physics (4) or	
FLDX 2150 Introductory Field Experience	1	PHYS 2121 University Physics (5)	4-5
EDFL 2240 Educational Psychology	3	General Education	9
<b><i>HIST 1350 or 1351 History of the United States</i></b>	3	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology	4	BIOL 3431 Animal Physiology or	
BIOL 3712 Field Natural History	4	BIOL 4411 Plant Physiology	4
EDSP 2100 Education of the Exceptional Child or		CTE 2000 Technology & Society	3
PSY 4200 Psychology of Exceptional Children	2	EDFL 4210 Teaching Reading in Sec. Schools	2
EDFL 4300 Educ. Measurement & Evaluation	2	PSY 4230 Psychology of Adolescence	3
Major Electives*	6	Major Electives*	3
<b>Semester Total</b>	<b>18</b>	General Education	3
		<b>Semester Total</b>	<b>18</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs</b>
BIOL 4050 Science Teaching Methods	3	BIOL 4080 Teaching Secondary Science	3
EDFL 3500 Secondary Teaching & Behavior Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
Major Electives*	3-4	<b>Semester Total</b>	<b>12</b>
General Education	6		
<b>Semester Total</b>	<b>16-17</b>		

**Biology Major, B.S. in Ed. Degree - 127 hours**

- \*This major requires 12-13 hours of major electives (hours depend on PHYS option selected. See the Undergraduate catalog for appropriate major elective course choices and for the Unified Science Certification requirements.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Arts, Humanities, and Social Sciences

Department of Communication and Sociology

# BROADCAST MEDIA

## BACHELOR OF SCIENCE DEGREE

The ability to communicate effectively is one of the most important skills an individual can possess in this era of rapid informational and technological change. The skills to gather information and communicate that information in written, oral or electronic forms are the hallmark of the programs in the University of Central Missouri's Department of Communication and Sociology.

Broadcast media students must complete 45 to 57 hours of required and elective courses, which include experience in the department's broadcast facilities. Proven skills in the use of digital broadcasting equipment, writing, performance, direction and crew responsibilities are required for graduation. Video production classes use wide screen format, and class sizes are limited to allow students to work on their projects. Students also have the opportunity to work for the campus cable network and the university's public radio and television stations.

The graduate with a Bachelor of Science degree in Broadcast Media will use the knowledge and skills obtained in the program to:

- Demonstrate an understanding of the theories of communication through broadcast media.
- Demonstrate an understanding of how research is applied and critiqued in media industries.
- Demonstrate preparedness for the industries of mass media through practical knowledge of the process of production.
- Demonstrate an understanding of the history of and effects of electronic media in today's society.

### Career Opportunities

The Bachelor of Science degree program in broadcast media prepares students for careers in television and radio as on-air talent, in various production and editing roles, and in management. University of Central Missouri graduates include a national television network vice president; a top nationally syndicated radio personality; a director with one of television's most successful production companies; an associate producer of one of Hollywood's recent blockbuster films; operatives at MissouriNet and the Brownfield Network; radio station owners; reporters, producers, directors, editors and news anchors in a number of radio and television stations.

### Faculty

The Department of Communication and Sociology has 20 full-time faculty members with work experience and scholarly expertise in their areas of specialization. Graduate assistants complement the laboratory programs. An internship program, maintained by department faculty members, provides support and assistance for students interested in working in broadcast stations or media production centers.

### KTBG-FM and KMOS-TV

The university's 100,000-watt state-of-the-art public broadcasting stations provide a unique opportunity for students to gain professional, hands-on experience in radio and television both on air and behind the scenes. In addition to a full complement of National Public Radio and Public Broadcasting System programming, the stations feature a variety of locally produced programs

which are enjoyed by a potential audience of more than one million people every day.

### Student Involvement

UCM's students are encouraged to take part in co-curricular activities that relate to their major, like the Campus Cable Network. Communication organizations open to students include The National Broadcasting Society and Lambda Pi Eta, among others. Additionally, internships and practica are supervised by faculty members and provide students a variety of professional experiences. The Department of Communication and Sociology promotes undergraduate and graduate learning experiences at Glamorgan University, Pontypridd Wales; Napier University, Edinburgh, Scotland; and Monterrey TEC (ITESM-CEM), Mexico, as well as the multi-national experiences provided by the Middleburg Center for Transatlantic Studies in Middleburg, The Netherlands.

### To Learn More

For more information write to the Department of Communication and Sociology, Martin 136, UCM, Warrensburg, MO 64093; call 660-543-4840; or visit the department's home page at [www.ucmo.edu/commun/](http://www.ucmo.edu/commun/).

For admission information, call 877-SAY-UCMO, (877-729-8266). Central Missouri's web site is [www.ucmo.edu](http://www.ucmo.edu).

**Broadcast Media Major, B.S. Degree (43-342)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
COMM 1000 Public Speaking	3	COMM 2100 Introduction to Communication Theory	3
COMM 1100 Introduction to Communication	1	COMM 2400 Foundations of Broadcasting	3
COMM 1200 Introduction to Mass Communication	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	General Education	5-6
General Education	4	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>14</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
COMM 2410 Multimedia I or		COMM 2410 Multimedia I or	
COMM 2411 Audio Production I	3	COMM 2411 Audio Production I	3
COMM 2415 Broadcast Copywriting	3	COMM 3100 Communication Research Methods	3
Minor Coursework	3	Minor Coursework	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
COMM 2412 Video Production I	5	COMM 3010 Interpersonal Communication	3
COMM 3000 Film Appreciation	3	Production Elective*	3
Minor Coursework	3	Minor Coursework	6
General Education	3	General Education	3
Free Choice Elective	3	Free Choice Elective	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>18</b>
<b>Summer - Between Junior/Senior Year</b>	<b>Hrs</b>		
COMM 4295 Internship (or Practicum)**	1-3		
<b>Semester Total</b>	<b>1-3</b>		
<b>Senior Year-Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
GEOG 3201 The Cultural Landscape	3	COMM 4250 Mass Communication Law	3
IGEN 3224 or 3232 or 4224	3	COMM 4490 Senior Capstone Seminar***	1
Minor Coursework	6	Industry Practice & Analysis Elective*	3
Free Choice Elective	3	Theory & Criticism Elective*	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	5
		<b>Semester Total</b>	<b>15</b>

**Broadcast Media Major, B.S. Degree - 124 hours**

- \*See the 2011 Undergraduate Catalog for the list of major electives to fulfill the Production, Industry Practice and Analysis, and Theory and Criticism areas.
- \*\*Students may take COMM 3200 or opt for the COMM 4295 (summer internship between Jr. & Sr. year) with department approval.
- \*\*\*COMM 4490 must be taken during the student's final semester.
- See the 2011 Undergraduate Catalog or the Department of Communication and Sociology for the statement of policy for admission to the major program.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen and on course selections made within the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Education

Department of Career and Technology Education

# CAREER AND TECHNOLOGY TEACHER EDUCATION

BACHELOR OF SCIENCE IN EDUCATION DEGREE - AREA 1 BUSINESS TEACHER EDUCATION (9-12 CERTIFICATION)

The Department of Career and Technology Education at UCM offers bachelor, master, and education specialist degrees. The primary purpose of the department is to provide leadership (state, regional, national, and international) by conducting research, developing curricula, and delivering pre- and in-service training for educators in the fields of agriculture, business, family and consumer sciences, technology education, and trade, technical and health services.

### Areas of Concentration

Three areas of concentration are available in the Career and Technology Education major including: Business Teacher Education (9-12 Certification), Family and Consumer Sciences Teacher Education (Birth – 12 Certification), and Engineering and Technology Teacher Education (9-12 Certification).

Career opportunities vary including public or private school teacher, trade, industrial, or health science instructor, college-level instructor, and others. The department provides options to develop expertise and advancement in these areas.

### Business Teacher Education Concentration

Business Teacher Education is an area of concentration within the Bachelor of Science degree in career and technology teacher education, and prepares students to teach business subjects in a variety of settings, including high school and public post-secondary programs, skill centers, adult evening schools, and Federal Job Training Partnership ACT programs. Graduates may also teach

in private post-secondary settings, such as proprietary schools and private two-year colleges, or in industry and business training programs.

Skills taught in the business teacher education program include: communication, information systems/ technology, personal finance, accounting, economics, entrepreneurship, international business, principles of management, marketing and business law, interpersonal and leadership skills, and career development.

### Academic Program

The University of Central Missouri's business teacher education program is accredited by the National Council for Accreditation of Teacher Education (NCATE). Programs in education also meet certification requirements set by the Missouri Department of Elementary and Secondary Education.

Students in this specialization take a combination of educational pedagogy and business courses. Education courses lead students to become certified teachers in Missouri business education and marketing education with successful completion of the appropriate Praxis examinations.

An alternative certification program is an option for students who have business work experience and a bachelor's degree in a related business area.

### Online Class Opportunities

Many courses within the Career and Technology Teacher Education major areas are offered online or as partially online hybrid courses. However, the entire degree is not available online.

### Student Involvement

Business and Marketing Education students are encouraged to participate in the collegiate level Phi Beta Lambda and DECA student organizations and competitions.

### Scholarships

Several scholarships are offered in the College of Education, the Department of Career and Technology Education, and a few that are specifically provided for Business Teacher Education students such as the Beulah Guttridge Winfrey and Wilda Dean Creighton Memorial scholarships.

### Faculty

The faculty members in the Department of Career and Technology Education are dedicated professionals who bring enthusiasm for business teacher education to the classroom.

Their advisement comes from their belief that business education teachers have a major positive impact on students' lives beyond the classroom.

### For More Information

To learn more write to the Department of Career and Technology Education, Grinstead 120, UCM, Warrensburg, MO 64093; visit the department's web site at [www.ucmo.edu/cte](http://www.ucmo.edu/cte); or call 660-543-4452.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or visit Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Career and Tech. Teacher Edu. Major, B.S. in Ed. Degree - Area 1 Business Teacher Edu. (41-270)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
BTE 1210 Essentials of Managing Information	2	COMM 1000 Public Speaking	3
CTE 1000 Introduction to Career Technology Education	2	ECON 1010 Principles of Macroeconomics	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>MATH 1111 Coll. Alg. or 1620 Contemp. Math*</b>	3	<b>HIST 1350 or 1351 History of the United States</b>	3
<b>General Education Science with laboratory</b>	4	POLS 1510 American Government	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting	3	BLAW 2720 Legal Environment Business	3
EDFL 2100 Foundations of Education	2	CTE 3110 Financial Management Education	3
FLDX 2150 Introductory Field Experience	1	EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Child	2
EDFL 2240 Educational Psychology	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BTE 4535 Data Input Technologies	2	BTE 4550 Publishing Applications for Business	2
BTE 4536 Integrated Productivity Applications	3	CTE 4145 Curriculum Construction in CTE	3
EDFL 4300 Education Measurement & Evaluation	2	EDFL 4210 Teaching of Reading in Secondary Education	2
MGT 3315 Management of Organizations	3	PSY 4230 Psychology of Adolescence	3
MGT 3325 Business Communications	3	General Education	3
MKT 3405 Marketing Policy	3	Major Electives*	4
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

**Pass Praxis II Test for Business Education  
Apply for Student Teaching**

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs.</b>
BTE 4210 Methods of Teaching Business Education	3	BTE 4241 Coordination of Cooperative Education Programs	2
CTE 4280 Implementing CTE Programs and Lab Mgmt.	3	BTE 4220 Secondary Field Experience II	1
CTE 4501 Managing Classroom Technologies	2	CTE 4135 Professional Preparation in CTE	2
EDFL 3500 Behavioral Management	3	FLDX 4595 Student Teaching I	5
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching II	4
Major Elective*	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Career and Technology Teacher Education Major, B.S. in Ed. Degree  
Area 1 Business Teacher Education (9-12 Certification) - 120 hours**

- \*Major electives (7 hours required), see program coordinator for courses suggestions.
- \*\* The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Education

Department of Career and Technology Education

# CAREER AND TECHNOLOGY TEACHER EDUCATION

BACHELOR OF SCIENCE IN EDUCATION DEGREE - AREA 2 FAMILY CONSUMER SCIENCES TEACHER EDUCATION  
(BIRTH-12 CERTIFICATION)

The Department of Career and Technology Education at UCM offers bachelor, master, and education specialist degrees. The primary purpose of the department is to provide leadership (state, regional, national, and international) by conducting research, developing curricula, and delivering pre- and in-service training for educators in the fields of agriculture, business, family and consumer sciences, technology education, and trade, technical and health services.

### Areas of Concentration

Three areas of concentration are available in the Career and Technology Education major including: Business Teacher Education (9-12 Certification), Family and Consumer Sciences Teacher Education (Birth – 12 Certification), and Engineering and Technology Teacher Education (9-12 Certification).

Career opportunities vary including public or private school teacher, trade, industrial, or health science instructor, college-level instructor, and others. The department provides options to develop expertise and advancement in these areas.

### Family and Consumer Sciences Teacher Education Concentration

The Bachelor of Science in Education degree in career and technology teacher education is designed to prepare students for

teaching careers in family and consumer sciences. Graduates are certified by the Missouri Department of Elementary and Secondary Education to teach in Missouri public schools. The program at UCM is nationally accredited and emphasizes consumer affairs, health and nutrition, child and family development, and the use of technology in all areas of the field. Graduates are able to teach family and consumer sciences to K-12 students.

### Online Class Opportunities

Many courses within the Career and Technology Teacher Education major areas are offered online or as partially online hybrid courses. However, the entire degree is not available online.

### Student Involvement

Professional organizations open to family and consumer sciences students include the American Association of Family and Consumer Sciences and the Association of Career and Technical Education.

### Special Facilities

Students seeking this degree can enhance knowledge gained from classroom experiences through professional development opportunities, and urban education experiences available through Central Missouri's sponsorship of charter schools in the Kansas City area.

### Scholarships

Many scholarships are offered in the Family and Consumer Sciences Teacher Education area, including the Laura Baker Scholarship, Doris Houx Kirkpatrick Family and Consumer Sciences Scholarship, Elizabeth Collings Weekley Scholarship, Edna Gehlken Scholarship in Home Economics, Doris Achenbach Sensenich Scholarship in FCSE, and Rita R. Youmans Scholarship in Home Economics.

### To Learn More

To learn more write to the Department of Career and Technology Education, Grinstead 120, UCM, Warrensburg, MO 64093; visit the department's web site at [www.ucmo.edu/cte](http://www.ucmo.edu/cte); or call 660-543-4452.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or visit Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Career & Tech. Teacher Edu. Major, B.S. in Ed. Degree - Area 2 Family & Consumer Sci. (41-572)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
CFD 1010 Individual & Family Relationships		3	<b>CHEM 1104 Intro. to the Sciences: Chemistry</b>		4
CFD 1220 Child Development		3	COMM 1000 Public Speaking		3
CTE 1000 Introduction to Career & Technology Education		2	<b>ENGL 1030 Composition II</b>		3
<b>ENGL 1020 Composition I</b>		3	<b>POLS 1510 American Government</b>		3
<b>MATH 1111 Coll. Alg. or 1620 Contemp. Math*</b>		3	General Education		2-3
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>15-16</b>
AE 1400 Freshman Seminar*		1			
<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
BIOL 1003 Introduction to the Sciences: Ecology		3	EDSP 2100 Education of the Exceptional Child or		
FAME 1450 Fund. of Apparel Design and Construction		3	PSY 4200 Psychology of Exceptional Children		2
FOOD 2322 Food Preparation		3	FAME 2442 Textiles		3
EDFL 2100 Foundations of Education		2	HIST 1350 or 1351 History of the United States		3
FLDX 2150 Introductory Field Experience		1	General Education		9
EDFL 2240 Educational Psychology		3	<b>Semester Total</b>		<b>17</b>
<b>Semester Total</b>		<b>15</b>			
<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
CFD 3230 Family Systems & Lifespan Develop. (fall only)		3	CFD 3240 Parent-Child Interaction (spring only)		3
CTE 3110 Financial Management Education		3	CTE 4145 Curriculum Construction for CTE		3
D&N 3340 Nutrition			CTE 4280 Implementing CTE Programs and Lab Mgmt.		3
ECEL 3260 Practicum in Child Development		1	FCSE 3120 Family Resource Management		3
FCSE 3710 Organization of Vocational FCSE (fall only)		3	HED 4320 Teaching Sexuality Education in the School		3
General Education		3	PSY 4230 Psychology of Adolescence		3
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>18</b>
<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester**</b>		<b>Hrs.</b>
EDFL 3500 Secondary Teaching & Behavioral Management		3	BTE 4241 Coordination of Cooperative Education Programs		2
FLDX 3550 Practicum in Secondary Instruction		1	CTE 4135 Professional Preparation in CTE		2
EDFL 4210 The Teaching of Reading in the Sec. School		2	FCSE 4725 Secondary Field Experience II		1
EDFL 4300 Educational Measurement & Evaluation		2	FLDX 4595 Student Teaching Secondary I		5
FCSE 4740 Methods of Teaching FCSE Education		3	ICAP 4468 Student Teaching Secondary II		4
FAME 4410 Materials for Interior Furnishings		3	<b>Semester Total</b>		<b>14</b>
<b>Semester Total</b>		<b>14</b>			

**Career and Technology Teacher Education Major, B.S. in Ed. Degree**  
**Area 2 Family and Consumer Sciences Teacher Education (Birth-12 Certification) 123 hrs**

- \*AE 1400 is a free choice elective and is highly recommended for academic success; however, this major does not require any free choice electives.
- \*\* The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- Certification to teach family and consumer sciences from birth to grade 12.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.



## College of Education

Department of Career and Technology Education

# CAREER AND TECHNOLOGY TEACHER EDUCATION

BACHELOR OF SCIENCE IN EDUCATION DEGREE - AREA 3 ENGINEERING AND TECHNOLOGY TEACHER EDUCATION (9-12)

The Department of Career and Technology Education at UCM offers bachelor, master, and education specialist degrees. The primary purpose of the department is to provide leadership (state, regional, national, and international) by conducting research, developing curricula, and delivering pre- and in-service training for educators in the fields of agriculture, business, family and consumer sciences, technology education, and trade, technical and health services.

### Areas of Concentration

Three areas of concentration are available in the Career and Technology Education major including: Business Teacher Education (9-12 Certification), Family and Consumer Sciences Teacher Education (Birth – 12 Certification), and Engineering and Technology Teacher Education (9-12 Certification).

Career opportunities vary including public or private school teacher, trade, industrial, or health science instructor, college-level instructor, and others. The department provides options to develop expertise and advancement in these areas.

### Engineering and Technology Teacher Education Concentration

The University of Central Missouri Department of Career and Technology Education's program in career and technology teacher education is designed for students who want to teach engineering and technology education in grades 9 through 12. In addition to certification in secondary education, successful completion of

the program's curriculum provides an excellent background in both technology education and teaching methods.

Students learn how to implement a contemporary technology education program with an emphasis in pre-engineering education. They also develop an understanding of the nature and history of technology and the influence of technology on society and the environment. Students will learn how to employ and teach problem-solving methods.

Graduates of the program possess demonstrated competence with various technologies including, communication, manufacturing, construction, transportation, energy, computer technology and engineering design education.

Students completing the program can be certified nationally to teach one or more of the Project Lead the Way courses. If you are in, or have taken, any high school PLTW courses, you may be eligible for college credit. Contact the department office for details.

### Online Class Opportunities

Many courses within the Career and Technology Teacher Education major areas are offered online or as partially online hybrid courses. However, the entire degree is not available online.

### Student Involvement

Professional organizations open to Engineering and Technology Education students include the Technology Education Collegiate Association, and other education related student organizations.

### Scholarships

See the Department or program area coordinator for details regarding scholarship opportunities for ETTE majors.

### Faculty and Facilities

Dedicated faculty and well-equipped facilities, including modern computer laboratories, offer students a quality learning experience. All department faculty members have extensive knowledge and experience in their field of specialization. With a university student-faculty ratio of about 17 to 1, faculty are able to provide personalized attention and instruction. Small classes allow informal class sessions and increased access to the department's computer and laboratory facilities.

### For More Information

To learn more write to the Department of Career and Technology Education, Grinstead 120, UCM, Warrensburg, MO 64093; visit the department's web site at [www.ucmo.edu/cte](http://www.ucmo.edu/cte); or call 660-543-4452.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or visit Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Career & Tech. Teacher Edu. Major, B.S. in Ed. Degree - Area 3 Eng. & Tech. Teacher Edu. (41-564)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
COMM 1000 Public Speaking	3	CTE 1500 Gateway to Technology	3
CTE 1000 Introduction to Career & Technical Education	2	CADD 2170 Introduction to Computer-Aided Drafting	2
CTE 1300 Introduction to Engineering Design	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>HIST 1350 or 1351 History of the United States</b>	3
CADD 1105 Basic AutoCAD	1	<b>PHYS 1104 Intro. to the Sciences: Physics (Lab)</b>	4
<b>MATH 1111 Coll. Alg. or 1620 Contemp. Math*</b>	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
EDFL 2100 Foundations of Education	2	BIOL 1003 or 1004 Ecology or 1005 Environ. Science**	3-4
FLDX 2150 Introductory Field Experience	1	ENGT 2515 Applied Manufacturing Processes	3
EDFL 2240 Educational Psychology	3	POLS 1510 American Government	3
ENGT 1000 Principles of Engineering	3	General Education	6
ENGT 1510 Introduction to Manufacturing Processes	3	<b>Semester Total</b>	<b>15-16</b>
ET 1020 General Electronics	3		
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 2000 Technology & Society	3	CTE 4145 Curriculum Construction in CTE	3
CTE 4280 Implementing CTE Programs and Lab Mgmt.	3	EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Children	2
ET 1050 Digital Principles and Applications	4	SOT 4570 Computer Graphics	3
General Education	6	IGEN 3116 Creative Problem Solving	3
<b>Semester Total</b>	<b>16</b>	PSY 4230 Psychology of Adolescence	3
		General Education	3
		<b>Semester Total</b>	<b>17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs.</b>
CTE 4125 Methods of Teaching Problem-Based Learning	3	BTE 4241 Coordination of Cooperative Education Programs	2
EDFL 3500 Secondary Teaching & Behavioral Management	3	CTE 4135 Professional Preparation in CTE	2
FLDX 3550 Practicum in Secondary Instruction	1	FLDX 4595 Student Teaching Secondary I	5
EDFL 4210 Teaching of Reading in Secondary Schools	2	ICAP 4468 Student Teaching Secondary II	4
EDFL 4300 Educational Measurement & Evaluation	2	T&OE 4120 Secondary Field Experience	1
Major Electives***	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>14</b>		

**Career and Technology Teacher Education Major, B.S. in Ed. Degree****Area 3 Engineering and Technology Teacher Education (9-12 Certification) - 121 hours**

- \*Students interested in Project Lead the Way (PLTW) curriculum, you must also have math at a higher level than Math 1111/1620. You may take Option 1 = MATH 1111 and 1112 or Option 2 = MATH 1150 or higher.
- \*\*Students interested in PLTW curriculum must have BIOL 1004 instead of BIOL 1003 or 1005.
- \*\*\*Suggested Major Electives (3 hours required) to enhance your degree program are: ATM1010 CADD 3160 or 4180, CMGT 3010, CTE 3060 or 4115, EDFL 4130 and 4340, ENGT 4520, or GRAP 1010.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

**College of Health, Science, and Technology***School of Environmental, Physical, and Applied Sciences***CHEMISTRY****BACHELOR OF ARTS DEGREE**

The future depends greatly on how people solve the world's problems, and problem solving is what chemists and physicists do best. From medicinal chemistry to research in superconductivity, there are abundant opportunities in the sciences. The programs offered by the Department of Biochemistry, Chemistry & Physics at the University of Central Missouri prepare students for many rewarding, cutting-edge careers.

The chemistry and physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience. Students with a major in chemistry receive extensive state of the art, hands-on experience with instrumentation, such as UV-Visible, FTIR, and FTNMR spectroscopy; chromatography (GC/MS/MS/HPLC); calorimetry; fluorometry; electrochemical analysis and others.

**About the Faculty**

Active research, workshop and seminar participation keeps physics and chemistry faculty current in the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in UCM's Department of Biochemistry, Chemistry & Physics have earned doctorates in their fields of expertise.

The department's caring and experienced faculty provide individualized attention for their students, and the university's low student to faculty ratio allows for such personalized activity. Classroom learning is reinforced through

practical laboratory experiences, where the use of instrumentation is emphasized.

**Facilities**

The Department of Biochemistry, Chemistry & Physics is located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

**Career Opportunities**

Chemistry is a common and well-suited major for many of the preprofessional programs (medicine, dentistry, veterinary, pharmacy, optometry) and also qualifies graduates to work as teachers or as chemists in industry and government. Chemistry students are provided very attractive financial assistance should they choose to continue their studies at the graduate level. Graduate studies in biochemistry, analytical, organic, inorganic, chemical education, petroleum and pharmaceutical chemistry are among the numerous options available.

**Student Involvement**

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The Society of Physics Students and the

American Chemical Society provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside of the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities. Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma or Beta Beta Beta.

Chemistry and physics students are considered for employment as laboratory or department assistants after completion of a minimum amount of training and study. This opportunity provides students with valuable teaching, research, and technical experience.

The Department of Biochemistry, Chemistry & Physics collaborates with the Departments of Criminal Justice and Biology and Earth Science to offer a minor in forensic science. Graduates completing the minor will be able to complete DNA testing and analyze trace evidence as entry level laboratory personnel.

**To Learn More**

For more information write to the Department of Biochemistry, Chemistry & Physics, UCM, Warrensburg, MO 64093, call 660-543-4948, or visit the department's web site at [www.ucmo.edu/chemphys](http://www.ucmo.edu/chemphys).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Chemistry Major, B.A. Degree (42-391)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytic Geometry I*	5	Modern Language Requirement**	3
Modern Language Requirement**	3	General Education Requirements	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 Freshman Seminar***	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3341 Organic Chemistry I	4	CHEM 3212 Quantitative Analysis	3
PHYS 1101 College Physics I	4	CHEM 3342 Organic Chemistry II	4
General Education	6	ENGL 2220 World Masterpieces**	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives (or PHYS 1102)#	4
		<b>Semester Total</b>	<b>14</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry	4	CHEM 3920 Communication Skills in Chemistry##	2
CHEM 3421 Intermediate Biochemistry	3	CHEM 4531 Physical Chemistry##	4
General Education	9	General Education	5-6
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	4-5
		<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
Chemistry Major Elective##	3-4	General Education (IGEN/ICAP)	3
Free Choice Electives	11-12	Free Choice Electives	12
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Chemistry Major, B.A. Degree - 120 hours**

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on taking two modern language courses and ENGL 2220 for general education Literature.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #College Physics 1102 is not required for the BA in Chemistry but is required for preprofessional programs such as pre-med and pre-pharmacy, pre-dental, pre-vet. It is recommended to take these your sophomore year. Physics 1101 will meet 3 hours of science general education and Physics 1102 will count towards 4 hours of free choice electives.
- ##Upper level chemistry courses offered variably. Check department for actual offerings.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# CHEMISTRY

## BACHELOR OF SCIENCE DEGREE - AREA 1 GENERAL CHEMISTRY

The future depends greatly on how people solve the world's problems, and problem solving is what chemists and physicists do best. From medicinal chemistry to research in superconductivity, there are abundant opportunities in the sciences. The programs offered by the Department of Biochemistry, Chemistry & Physics at the University of Central Missouri prepare students for many rewarding cutting-edge careers.

The chemistry and physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience. Students with a major in chemistry receive extensive state of the art, hands-on experience with instrumentation, such as UV-Visible, FTIR, and FTNMR spectroscopy; chromatography (GC/MS/MS/HPLC); calorimetry; fluorometry; electrochemical analysis and others.

### Accreditation

The bachelor of science major in chemistry is accredited by the American Chemical Society.

### About the Faculty

Active research, workshop and seminar participation keep physics and chemistry faculty current in the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in UCM's Department of Biochemistry, Chemistry & Physics have earned doctorates in their fields of expertise.

The department's caring and experienced faculty provide individualized attention for their students, and the university's low

student-to-faculty ratio allows for such personalized activity. Classroom learning is reinforced through practical laboratory experiences, where the use of instrumentation is emphasized.

### Facilities

The Department of Biochemistry, Chemistry & Physics is located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

### Career Opportunities

Chemistry is a common and well-suited major for many of the preprofessional programs (medicine, dentistry, veterinary, pharmacy, optometry) and also qualifies graduates to work as teachers or as chemists in industry and government. Chemistry students are provided very attractive financial assistance should they choose to continue their studies at the graduate level. Graduate studies in biochemistry, analytical, organic, inorganic, chemical education, petroleum and pharmaceutical chemistry are among the numerous options available.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The

Society of Physics Students and the American Chemical Society provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside of the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities. Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma or Beta Beta Beta.

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For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Chemistry Major - Area 1 General Chemistry, B.S. Degree (43-393)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytical Geometry I*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Technology	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 College Physics I	4	PHYS 1102 College Physics II	4
General Education	6	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry	4	CHEM 3212 Quantitative Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry***	2
CHEM 4231 Instrumental Analysis***	4	CHEM 4910 Research in Chemistry	1
General Education	3	General Education	9
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 4111 Advanced Inorganic Chemistry or CHEM 4313 Advanced Organic Chemistry	3	CHEM 4421 Advanced Biochemistry	3
CHEM 4531 Physical Chemistry I***	4	CHEM 4532 Physical Chemistry II***	4
CHEM 4910 Research in Chemistry	1	CHEM 4910 Research in Chemistry	2
General Education (IGEN/ICAP)	3	Free Choice Electives	7
Free Choice Electives	5	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**Chemistry Major - Area 1 General Chemistry, B.S. Degree - 120 hours**

- \* Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\* Upper level chemistry courses offered variably. Check with the department for actual offerings.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# CHEMISTRY

## BACHELOR OF SCIENCE DEGREE - AREA 2 ALTERNATIVE ENERGY

The future depends greatly on how people solve the world's problems, and problem solving is what chemists and physicists do best. From medicinal chemistry to research in superconductivity, there are abundant opportunities in the sciences. The programs offered by the Department of Biochemistry, Chemistry & Physics at the University of Central Missouri prepare students for many rewarding cutting-edge careers.

The chemistry and physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience. Students with a major in chemistry receive extensive state of the art, hands-on experience with instrumentation, such as UV-Visible, FTIR, and FTNMR spectroscopy; chromatography (GC/MS/MS/HPLC); calorimetry; fluorometry; electrochemical analysis and others.

### Accreditation

The bachelor of science major in chemistry is accredited by the American Chemical Society.

### About the Faculty

Active research, workshop and seminar participation keep physics and chemistry faculty current in the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in UCM's Department of Biochemistry, Chemistry & Physics have earned doctorates in their fields of expertise.

The department's caring and experienced faculty provide individualized attention for their students, and the university's low

student-to-faculty ratio allows for such personalized activity. Classroom learning is reinforced through practical laboratory experiences, where the use of instrumentation is emphasized.

### Facilities

The Department of Biochemistry, Chemistry & Physics is located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

### Career Opportunities

Chemistry is a common and well-suited major for many of the preprofessional programs (medicine, dentistry, veterinary, pharmacy, optometry) and also qualifies graduates to work as teachers or as chemists in industry and government. Chemistry students are provided very attractive financial assistance should they choose to continue their studies at the graduate level. Graduate studies in biochemistry, analytical, organic, inorganic, chemical education, petroleum and pharmaceutical chemistry are among the numerous options available.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The

Society of Physics Students and the American Chemical Society provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside of the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities. Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma or Beta Beta Beta.

Chemistry and physics students are considered for employment as laboratory or department assistants after completion of a minimum amount of training and study. This opportunity provides students with valuable teaching, research and technical experience.

The Department of Biochemistry, Chemistry & Physics collaborates with the Departments of Criminal Justice and Biology and Earth Science to offer a minor in forensic science. Graduates completing the minor will be able to complete DNA testing and analyze trace evidence as entry level laboratory personnel.

### To Learn More

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**Chemistry Major - Area 2 Alternative Energy, B.S. Degree (43-393)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytical Geometry I*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Technology	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
ET 1010 Applied Electricity	4	GEOG 2212 World Geography	3
PHYS 1101 College Physics I	4	PHYS 1102 College Physics II	4
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry	4	CHEM 3212 Quantitative Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry***	2
CHEM 4231 Instrumental Analysis***	4	CHEM 4910 Research in Chemistry	1
General Education	3	General Education	9
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 4531 Physical Chemistry I***	4	CHEM 4221 Environmental Chemistry	3
CHEM 4910 Research in Chemistry	1	CHEM 4532 Physical Chemistry II***	4
ET 3017 Industrial Electronics	4	CHEM 4910 Research in Chemistry	2
General Education	6	Free Choice Electives	7
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Chemistry Major - Area 2 Alternative Energy, B.S. Degree - 120 hours**

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
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**College of Health, Science, and Technology***School of Environmental, Physical, and Applied Sciences***CHEMISTRY****BACHELOR OF SCIENCE DEGREE - AREA 3 ENVIRONMENTAL CHEMISTRY**

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**Accreditation**

The bachelor of science major in chemistry is accredited by the American Chemical Society.

**About the Faculty**

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**Career Opportunities**

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**Chemistry Major - Area 3 Environmental Chemistry, B.S. Degree (43-393)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytical Geometry I*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Technology	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 1110 Principles of Biology	3	CHEM 3342 Organic Chemistry II	4
CHEM 3341 Organic Chemistry I	4	EASC 3010 Environmental Geology	3
PHYS 1101 College Physics I	4	PHYS 1102 College Physics II	4
General Education	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>17</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry	4	CHEM 3212 Quantitative Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry***	2
CHEM 4231 Instrumental Analysis***	4	CHEM 4910 Research in Chemistry	1
General Education	3	General Education	9
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 4531 Physical Chemistry I***	4	CHEM 4221 Environmental Chemistry	3
CHEM 4910 Research in Chemistry	1	CHEM 4532 Physical Chemistry II***	4
GEOG 4220 Geographic Information Systems I	3	CHEM 4910 Research in Chemistry	2
General Education	6	SAFE 3120 Industrial Hygiene	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15</b>

**Chemistry Major - Area 3 Environmental Chemistry, B.S. Degree - 120 hours**

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
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## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# CHEMISTRY

## BACHELOR OF SCIENCE DEGREE - AREA 4 ENTREPRENEURSHIP

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### Accreditation

The bachelor of science major in chemistry is accredited by the American Chemical Society.

### About the Faculty

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### Career Opportunities

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Chemistry and physics students are considered for employment as laboratory or department assistants after completion of a minimum amount of training and study. This opportunity provides students with valuable teaching, research and technical experience.

The Department of Biochemistry, Chemistry & Physics collaborates with the Departments of Criminal Justice and Biology and Earth Science to offer a minor in forensic science. Graduates completing the minor will be able to complete DNA testing and analyze trace evidence as entry level laboratory personnel.

### To Learn More

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For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Chemistry Major - Area 4 Entrepreneurship, B.S. Degree (43-393)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytical Geometry I*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Technology	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3341 Organic Chemistry I	4	ACCT 2100 Survey of Accounting	3
PHYS 1101 College Physics I	4	CHEM 3342 Organic Chemistry II	4
General Education	6	PHYS 1102 College Physics II	4
<b>Semester Total</b>	<b>14</b>	General Education	3
		<b>Semester Total</b>	<b>14</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry	4	CHEM 3212 Quantitative Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry***	2
CHEM 4231 Instrumental Analysis***	4	CHEM 4910 Research in Chemistry	1
CHEM 4910 Research in Chemistry	1	General Education	9
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 4531 Physical Chemistry I***	4	CHEM 4532 Physical Chemistry II***	4
CIS 3630 Management Information Systems	3	CHEM 4910 Research in Chemistry	2
MGT 3315 Management of Organizations	3	General Education	6
MGT 3385 or MKT 3485 or CIS 3685 IBE Practicum	3	Free Choice Electives	3
MKT 3405 Marketing Policy	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Chemistry Major - Area 4 Entrepreneurship, B.S. Degree - 120 hours**

- \* Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\* Upper level chemistry courses offered variably. Check with the department for actual offerings.
- # Students pursuing Area 4 must enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. See CIS department for enrollment in CIS 3630 due to prerequisites (ACCT 2101 and CIS 1605).
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# CHEMISTRY

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

Science students who would like to become teachers may earn a Bachelor of Science in Education degree in chemistry. It can include unified science certification to teach any of the beginning sciences in addition to all levels of chemistry in grades 9-12.

The future depends greatly on how people solve the world's problems, and problem solving is what chemists and physicists do best. From medicinal chemistry to research in superconductivity, there are abundant opportunities in the sciences. The programs offered at UCM prepare students for many rewarding cutting-edge careers.

The chemistry degree program at UCM provides a balanced curriculum of classroom instruction and practical laboratory experience. Students with a major in chemistry receive extensive state of the art, hands-on experience with instrumentation, such as UV-Visible, FTIR, and FTNMR spectroscopy; chromatography (GC/MS/MS/HPLC); calorimetry; fluorometry; electrochemical analysis and others. A research component in the chemistry program allows students an opportunity to work independently and to use acquired skills. All teacher education programs are accredited by the National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education. In addition, secondary teacher education programs in the sciences are accredited by the National Science Teachers Association.

### About the Faculty

Active research, workshop and seminar participation keep chemistry

faculty current in the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in the department have earned doctorates in their fields of expertise.

The department's caring and experienced faculty provide individualized attention for their students, and the university's low student to faculty ratio allows for such personalized activity. Classroom learning is reinforced through practical laboratory experiences, where the use of instrumentation is emphasized.

### Facilities

The Department of Biochemistry, Chemistry & Physics is located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

### Career Opportunities

Chemistry is a common major for all of the preprofessional programs (medicine, dentistry, veterinary, pharmacy, optometry) and also qualifies graduates to work as teachers or as chemists in industrial and governmental positions. Chemistry students are provided very attractive financial assistance should they choose to continue their studies at the graduate level. Graduate studies in biochemistry, analytical, organic, inorganic, chemical education, petroleum and

pharmaceutical chemistry are among the numerous options available.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The Society of Physics Students, the American Chemical Society, and the National Science Teachers Association provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities. Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma or Beta Beta Beta.

Chemistry and physics students are considered for employment as laboratory or department assistants after completion of a minimum amount of training and study. This opportunity provides students with valuable teaching, research and technical experience.

### To Learn More

For more information write to the Department of Biochemistry, Chemistry & Physics, UCM, Warrensburg, MO 64093, call 660-543-4948, or visit the department's web site at [www.ucmo.edu/chemphys](http://www.ucmo.edu/chemphys).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Chemistry Major, B.S. in Ed. Degree (41-485)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1110 Prin. of Biology or BIOL 1111 Plant Biology*	3-4	<b><i>BIOL 1005 Introduction to Environ. Sciences</i></b>	3
CHEM 1131 General Chemistry I**	5	CHEM 1132 General Chemistry II	5
CTE 2000 Technology & Society	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>HIST 1350 or 1351 History of the United States</i></b>	3
<b>Semester Total</b>	<b>14-15</b>	General Education	3
		<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CHEM 3341 Organic Chemistry I	4	CHEM 3212 Quantitative Analysis	3
EDFL 2100 Foundations of Education	2	EASC 1004 Introduction to the Sciences: Geology	4
FLDX 2150 Introductory Field Experience	1	EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of the Exceptional Child	2
EDFL 2240 Educational Psychology	3	PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123)	4-5
<b><i>MATH 1151 Calculus &amp; Analytic Geometry 1**</i></b>	5	POLS 1510 American Government	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16-17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 4531 or 4532 Physical Chemistry***	4
PSY 4230 Psychology of Adolescence	3	EDFL 4210 Teaching of Reading in Secondary Schools	2
Major Elective#	3	EDFL 4300 Educational Measurement & Evaluation	2
General Education	6	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs</b>
CHEM 3421 Intermediate Biochemistry	3	CHEM 4080 Secondary Science Teaching	3
CHEM 4050 Science Teaching Methods	3	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Management	3	ICAP 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	<b>Semester Total</b>	<b>12</b>
Major Elective#	1-2		
General Education	3		
<b>Semester Total</b>	<b>14-15</b>		

**Chemistry Major, B.S. in Ed. Degree - 120 hours**

- \*Students completing the Unified Science Certification requirements should choose BIOL 1111 instead of BIOL 1110. Meet with a departmental advisor to learn more about Unified Science Certification.
- \*\*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*\* Upper level chemistry courses offered variably. Check with the department for actual offerings.
- #See catalog for major electives and Unified Science Certification requirements. Number of major electives ranges from 4-6 credit hours and will depend on biology and physics choices.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Education

Department of Educational Leadership and Human Development

# CHILD AND FAMILY DEVELOPMENT

## BACHELOR OF SCIENCE DEGREE

The mission of Central's Child and Family Development program is to prepare highly qualified graduates to work effectively with individuals and families in our diverse and multi-faceted society, which in turn, improves the quality of life for individuals and families. This mission will be accomplished through comprehensive curriculum rooted in sound theoretical framework and contemporary research, hands-on professional learning experiences with children and families in varied settings, strong support and valuable guidance, and leadership opportunities.

### What do CFD Students Learn

The Child and Family Development curriculum is primarily guided by the National Council of Family Relations Core Competencies. The ten core competencies areas are: Families in Society,

Internal Dynamics of Families, Human Growth and Development Over the Life Span, Human Sexuality, Interpersonal Relationships, Family Resource Management, Parent Education and Guidance, Family Law and Public Policy, Ethics and Family Life Education Methodology. In addition to acquiring a strong foundation for understanding development at all ages, students will gain hands-on experiences through courses, volunteer work, student organizations and campus activities.

### Degrees

This Bachelor of Science degree prepares students for leadership roles in child and/or family related careers, such as early care and education, human services and parent education.

### A Bright Future

The degree in Child and Family Development enable students to work with children and families in various settings. Due to the changes and diversities among modern families, there is an increasing demand for Child and Family Development Professionals. Opportunities at the state/federal level are anticipated due to the massive retirement of the baby boomer generation. In addition, many Child and Family Development graduates apply and are accepted to graduate schools in related fields such as Marriage and Family Therapy, School Counseling, Community Counseling, and Human Development and Family Sciences.

### Career Options

By focusing on concepts and principles of human development and the complexities of contemporary life, Central's child and family development degree program equips graduates to work in a variety of settings and capacities with individuals and families. Careers are found in local, state, and federal government agencies, preschools, residential facilities, hospitals, community centers, churches, schools, for profit, and non-profit organizations.

### About the Faculty

Child and family development faculty member all have earned doctoral degrees in child and family development. Additionally, faculty members have had professional work experience in human service agencies. Faculty members conduct applied research and present papers at international, national and state conferences.

### Student Involvement

The Central Society of Child and Family Development (CSCFD) is an organization for students studying Child and Family Development. This major specific student organization provides numerous networking and professional development opportunities.

### To Learn More

For more information, contact the coordinator of Child and Family Development programs in the Department of Educational Leadership and Human Development, UCM, Lovinger 4101, Warrensburg, MO 64093, call 660-543-8744 or visit [www.ucmo.edu/elhd/programs/cfd](http://www.ucmo.edu/elhd/programs/cfd).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's web address is [www.ucmo.edu](http://www.ucmo.edu).

**Child and Family Development Major, B.S. Degree (43-121)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AE 1450 Valuing Differences	1	CFD 1220 Child Development	3
CFD 1010 Individual & Family Relationships	3	ECEL 2110 World Diversity & America	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PSY 1100 General Psychology	3	SOC 1800 General Sociology	3
General Education	5-6	General Education	4
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CFD 1230 Observation of Children	2	CTE 3110 or FCSE 3120 or FIN 1820	3
HIST 1350 or 1351 History of the United States	3	SOC 2805 Introduction to Social Research	3
General Education	9	General Education	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives**	6
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CFD 3230 Family Systems & Life Span Development	3	CFD 3240 Parent-Child Interaction	3
CFD 3710 Field Experience in Child & Family Development	3	CFD 3250 Org. & Admin. of Programs for Young Children	3
General Education	3	CFD 4220 Sexuality Across the Lifespan	3
Free Choice Electives**	6	Free Choice Electives**	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Summer Semester</b>	<b>Hrs.</b>		
CFD 4710 Internship***	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CFD 3222 Early Childhood	3	CFD 4745 Senior Seminar	3
CFD 4850 Family Policy and Advocacy	3	CFD Major Elective (see Catalog for course choices)	3
CFD Major Elective (see Catalog for course choices)	3	Free Choice Electives**	6
General Education	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives**	2-3		
<b>Semester Total</b>	<b>14-15</b>		

**Child and Family Development Major, B.S. Degree - 120 hrs**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*For free choice elective hours please work with CFD faculty advisor to find the most appropriate options.
- \*\*\*Internship is to be completed during the summer semester before the senior year.
- A grade of C or higher is required in all CFD prefix courses.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Arts, Humanities, and Social Sciences

Department of Communication and Sociology

# COMMUNICATION

## BACHELOR OF ARTS DEGREE

The ability to communicate effectively is one of the most important skills an individual can possess in this era of rapid informational and technological change. The skills to gather information in written, oral or electronic forms are the hallmark of the programs in the University of Central Missouri's Department of Communication and Sociology.

### Communication

The Bachelor of Arts in Communication degree is an undergraduate degree program that reinforces a general study of human communication. The 39- to 47-hour program emphasizes a strong core as well as areas of criticism, production, survey, relationship development, and classical theory.

The graduate with a Bachelor of Arts in Communication degree will use the knowledge and skills obtained in the program to:

- Demonstrate a general knowledge and appreciation of mass/or speech communication theories.
- Demonstrate ability to critique and/or apply various research methods and/or approaches.
- Demonstrate preparedness from professional life and/or further academic study.
- Demonstrate a basic knowledge of the combined disciplines of mass and speech communication through each of the following core areas: production, criticism, classical rhetoric, survey, and relational dynamics.

### Faculty

There are 20 full-time faculty members in the Department of Communication and Sociology with scholarly and/or work experience in their areas of specialization. Graduate assistants complement the laboratory programs as teachers and assistants.

### Student Involvement

Students are encouraged to take a part in co-curricular activities that relate to their major. Communication organizations open to students include: Communication Honor Society (Lambda Pi Eta), International Association of Business Communicators, the National Broadcasting Association, Public Relations Student Society of America, Society of Professional Journalists and Pi Kappa Delta.

Students can also participate in debate/forensics. Nationally competitive team allows students to compete in a variety of debate and individual events. The team has won the Montgomery Cup six times (2001-2006), in an international debate competition held annually throughout Great Britain.

Additionally, internship programs are maintained by faculty members and provide students with professional experience in broadcast stations, media centers, political campaigns and business organizations.

Finally, in accordance with a focus on intergroup and intercultural communication, the Department of Communication and Sociology

promotes undergraduate and graduate learning experiences at the Glamorgan University in Pontyprodd, Wales; Buckingham Chiltens University in High Wycombe, Great Britain; Napier University in Edinburgh, Scotland; Monterrey TEC (ITESM-CEM), Mexico, as well as the multinational experiences provided by the Middleburg Center for Transatlantic Study in Middleburg, The Netherlands.

### To Learn More

For more information contact the Department of Communication and Sociology, Martin 136, Warrensburg, MO 64093; call 660-543-4840; or visit the department's home page at [www.ucmo.edu/commun](http://www.ucmo.edu/commun). For admission information call 877-SAY-UCMO (877-729-8266). Central Missouri's web site is [www.ucmo.edu](http://www.ucmo.edu).

**Communication Major, B.A. Degree (42-348)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year – Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
COMM 1000 Public Speaking	3	COMM 2100 Introduction to Communication Theory	3
COMM 1100 Introduction to Communication	1	ENGL 1030 Composition II	3
COMM 1200 Introduction to Mass Communication	3	Modern Language Requirement*	3
ENGL 1020 Composition I	3	General Education	7
Modern Language Requirement*	3	<b>Semester Total</b>	<b>16</b>
General Education	3		
<b>Semester Total</b>	<b>16</b>		
<b>Sophomore Year – Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
COMM 2325 Improving Listening Skills	3	ANTH 1820 or GEOG 3201 or WS 2000	3
COMM Elective from: Criticism, Production, Survey, Relational or Classical**	2	COMM 3100 Communication Research Methods	3
Minor Coursework	3	COMM Elective from: Criticism, Production, Survey, Relational or Classical**	3
Modern Language Requirement*	3	General Education	5-6
General Education	6	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>17</b>		
<b>Junior Year – Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
COMM 3000 Film Appreciation	3	COMM 3010 Interpersonal Communication	3
COMM 3200 Mass Media Practicum or COMM 3390 Forensics	2-3	COMM 3327 Improving Interviewing Skills#	3
COMM Elective from: Criticism, Production, Survey, Relational or Classical**	3	Dept.-Approved Upper-Level Elective in COMM	3
Minor Coursework	1	Minor Coursework	6
General Education	3	<b>Semester Total</b>	<b>15</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>15-16</b>		
<b>Senior Year – Fall Semester</b>	<b>Hrs</b>	<b>Senior Year – Spring Semester</b>	<b>Hrs</b>
COMM 4335 Gender Communication#	3	COMM Electives from: Criticism, Production, Survey, Relational, or Classical**	4
COMM 4390 Contemporary Communication	2	Minor Coursework	3
IGEN 4224 or 3232 or 3224	3	Upper-Level (3000/4000) Free Choice Electives***	2
Minor Coursework	6	Free Choice Electives	6
Free Choice Electives	1	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Communication Major, B.A. Degree - 124 hours**

- \*Refer to the Bachelor's Degree Requirements section for fulfillment options of the B.A. Modern Language requirements. This plan is based on nine hours of modern language.
- \*\*This major requires 12-18 major electives from five content areas (Criticism, Production, Survey, Relational, and Classical). See the 2011 Undergraduate catalog for hours required and approved courses in each area.
- \*\*\*This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- #Course is offered only in the semester indicated.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen and on course selections made within the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

School of Accountancy and Computer Information Systems

AACSB Accredited

# COMPUTER INFORMATION SYSTEMS

SOFTWARE DEVELOPMENT CONCENTRATION, BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Employers throughout the United States turn to UCM's Department of Accountancy and Computer Information Systems for graduates with computer and business skills in computer information systems needed in business, industry, education and government fields. Graduates of the computer information systems (CIS) program gain proficiency with various computer languages, database programming, network management and security and client server computing in a business environment using state-of-the-art equipment. The program is fully accredited by the AACSB-International, the hallmark of a quality program that employers recognize and value.

Today's modern information society is constantly changing. Students at UCM are trained to succeed by adapting to these changes. The CIS program provides educational and hands-on experience for entry-level positions in programming, networking, database administration and systems design. UCM's program encompasses not only a working knowledge of information technology, but also an understanding of business processes and policies that dictate the existing dynamic business environment.

The CIS curriculum is based on the model curriculum developed by the Association for Information Technology Professionals. All students complete a common core of business courses. Students then concentrate on CIS core courses that include programming courses in VB, Java, database (Oracle, SQL), LAN and Analysis and Design. Students have to select one of the two areas of concentration - 1) Software Development and 2) Networking /

Systems Administration followed by a capstone System Architecture and Development course.

### Career Opportunities

According to the U.S. Department of Labor, eight of the top 10 fastest growing jobs in the country through 2010 are in CIS areas. Pursuing a major in computer information systems at UCM is a sure step toward securing a seat among the many computer programmers, analysts, database administrators, network administrators and client server specialists across America.

The CIS program at UCM is one of the finest in the region, and in recent years CIS students have a nearly 100 percent placement record within three months of their graduation. Because of the education they receive, graduates are placed nationwide in top corporations with high starting salaries.

### Department Facilities

A wide variety of computing resources are available for students ranging from hundreds of PCs and server resources through campus-wide distributed network systems to IBM mainframe computer. The Harmon College of Business and Professional Studies Computing Lab houses 100+ workstations connected to the campus-wide network backbone. In addition, the CIS department houses a Software Engineering Lab, a Client Server Lab, a Web Development Lab and a Usability Lab with state-of-the-art hardware, software and multimedia facilities. All CIS classrooms are equipped with on-demand multimedia resources, desktop plug-in network hookup and instructor PC workstation

running on the campus network.

### Student Involvement

Various departmental organizations are available, including the student chapter of the Association for Information Technology Professionals and Delta Sigma Pi business fraternity. Participation allows students to compete in national competitions, visit businesses, meet executives and supervisors, interact with faculty members, and meet other students outside the classroom.

### Departmental Scholarships

In addition to about \$4 million in scholarships administered by the university, a number of corporate scholarships are available. These include: Boeing Scholarships, Sprint Scholarships, Hallmark Cards Scholarships, Penzoil Scholarships and many more. Contact the Accountancy and Computer Information Systems department for details.

### To Learn More

For more information contact the Department of Accountancy and Computer Information Systems, at UCM, Dockery 300, Warrensburg, MO 64093, call 660-543-4767 or visit [www.ucmo.edu/cis](http://www.ucmo.edu/cis).

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or visit Central Missouri's web site at [www.ucmo.edu](http://www.ucmo.edu).

**Computer Information Systems Major (Software Development), B.S.B.A. Degree (46-266)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management*+	3	COMM 1000 Public Speaking	3
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics*	3
MATH 1111 College Algebra*	3	ENGL 1030 Composition II	3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 or BADM 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
CIS 2605 Programming with Visual Basic.net	3	BLAW 2720 Legal Environment of Business*	3
ECON 1011 Principles of Microeconomics*	3	CIS 2665 Principles of Data Communications & LAN	3
General Education	7	FIN 2801 Business Statistics I*	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
		<b>Note: Complete all B.S.B.A. Admission requirements and apply for admission*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CIS 2615 Introduction to JAVA	3	CIS 3650 Database Management Systems	3
CIS 3630 Management Information Systems***	3	CIS 3660 Analysis & Design of Computer Info. Systems	3
MGT 3315 Management of Organizations***	3	FIN 3801 Business Statistics II	3
MKT 3405 Marketing Policy***	3	MGT 3325 Business Communications	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	CIS Major Elective	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>18</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CIS 3670 User Interface Design	3	CIS 4690 Systems Architecture & Development	3
CIS 4660 Applications Development Using JAVA or CIS 4670 Applications Development Using VB.net	3	ICAP 4357 Organization Policy & Strategy	3
CIS 4680 Data Resource Management	3	CIS Major Electives	5
FIN 3850 Principles of Finance	3	General Education	3
MGT 3360 Production/Operations Management	3	Free Choice Elective	1
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Computer Information Systems Major (Software Development), B.S.B.A. Degree - 124 Hours**

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA, and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- \*\*\*All CIS majors must enroll in the IBE Block. This includes the IBE practicum (CIS 3685, MKT 3485 or MGT 3385) concurrently with the IBE sections of MGT 3315, MKT 3405, and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1605 or ACCT 2110, and junior standing.
- +CIS 1600 taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and CIS 1605 and will fulfill UCM's General Education Division II Area A Part II Technology requirement.
- A 2.25 GPA on all coursework is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

School of Accountancy and Computer Information Systems

AACSB Accredited

# COMPUTER INFORMATION SYSTEMS

NETWORKING CONCENTRATION, BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Employers throughout the United States turn to UCM's Department of Accountancy and Computer Information Systems for graduates with computer and business skills in computer information systems needed in business, industry, education and government fields. Graduates of the computer information systems (CIS) program gain proficiency with various computer languages, database programming, network management and security and client server computing in a business environment using state-of-the-art equipment. The program is fully accredited by the AACSB-International, the hallmark of a quality program that employers recognize and value.

Today's modern information society is constantly changing. Students at UCM are trained to succeed by adapting to these changes. The CIS program provides educational and hands-on experience for entry-level positions in programming, networking, database administration and systems design. UCM's program encompasses not only a working knowledge of information technology, but also an understanding of business processes and policies that dictate the existing dynamic business environment.

The CIS curriculum is based on the model curriculum developed by the Association for Information Technology Professionals. All students complete a common core of business courses. Students then concentrate on CIS core courses that include programming courses in VB, Java, database (Oracle, SQL), LAN and Analysis and Design. Students have to select one of the two areas of concentration - 1) Software

Development and 2) Networking / Systems Administration followed by a capstone System Architecture and Development course.

### Career Opportunities

According to the U.S. Department of Labor, eight of the top 10 fastest growing jobs in the country through 2010 are in CIS areas. Pursuing a major in computer information systems at UCM is a sure step toward securing a seat among the many computer programmers, analysts, database administrators, network administrators and client server specialists across America.

The CIS program at UCM is one of the finest in the region, and in recent years CIS students have a nearly 100 percent placement record within three months of their graduation. Because of the education they receive, graduates are placed nationwide in top corporations with high starting salaries.

### Department Facilities

A wide variety of computing resources are available for students ranging from hundreds of PCs and server resources through campus-wide distributed network systems to IBM mainframe computer. The Harmon College of Business and Professional Studies Computing Lab houses 100+ workstations connected to the campus-wide network backbone. In addition, the CIS department houses a Software Engineering Lab, a Client Server Lab, a Web Development Lab and a Usability Lab with state-of-the-art hardware, software and multimedia facilities. All CIS classrooms are equipped with on-demand multimedia

resources, desktop plug-in network hookup and instructor PC workstation running on the campus network.

### Student Involvement

Various departmental organizations are available, including the student chapter of the Association for Information Technology Professionals and Delta Sigma Pi business fraternity. Participation allows students to compete in national competitions, visit businesses, meet executives and supervisors, interact with faculty members, and meet other students outside the classroom.

### Departmental Scholarships

In addition to about \$4 million in scholarships administered by the university, a number of corporate scholarships are available. These include: Boeing Scholarships, Sprint Scholarships, Hallmark Cards Scholarships, Penzoil Scholarships and many more. Contact the Accountancy and Computer Information Systems department for details.

### To Learn More

For more information contact the Department of Accountancy and Computer Information Systems at, UCM, Dockery 300, Warrensburg, MO 64093, call 660-543-4767 or visit [www.ucmo.edu/cis](http://www.ucmo.edu/cis).

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or visit Central Missouri's web site at [www.ucmo.edu](http://www.ucmo.edu).

**Computer Information Systems Major (Networking), B.S.B.A. Degree (46-266)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management*+	3	COMM 1000 Public Speaking	3
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics*	3
MATH 1111 College Algebra*	3	ENGL 1030 Composition II	3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 or BADM 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
CIS 2605 Programming with Visual Basic.net	3	BLAW 2720 Legal Environment of Business*	3
ECON 1011 Principles of Microeconomics*	3	CIS 2665 Principles of Data Communications & LAN	3
General Education	7	FIN 2801 Business Statistics I*	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
		<b>Note: Complete all B.S.B.A. Admission requirements and apply for admission*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CIS 3630 Management Information Systems***	3	CIS 2615 Introduction to JAVA	3
CIS 3665 Data Communication Technologies (fall only)	3	CIS 3650 Database Management Systems	3
MGT 3315 Management of Organizations***	3	CIS 3660 Analysis & Design of Computer Info. Systems	3
MKT 3405 Marketing Policy***	3	FIN 3801 Business Statistics II	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	MGT 3325 Business Communications	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>18</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CIS 4665 Data Comm. & Distributed Data Processing	3	CIS 4685 Network Planning, Design & Sec. (spring only)	3
FIN 3850 Principles of Finance	3	CIS 4690 Systems Architecture & Development	3
MGT 3360 Production/Operations Management	3	ICAP 4357 Organization Policy & Strategy	3
CIS Elective	3	CIS Electives	5
<b>Semester Total</b>	<b>15</b>	Free Choice Elective	1
		<b>Semester Total</b>	<b>15</b>

**Computer Information Systems Major (Networking), B.S.B.A. Degree - 124 Hours**

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA, and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- \*\*\*All CIS majors must enroll in the IBE Block. This includes the IBE practicum (CIS 3685, MKT 3485 or MGT 3385) concurrently with the IBE sections of MGT 3315, MKT 3405, and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1605 or ACCT 2110, and junior standing.
- +CIS 1600 taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and CIS 1605 and will fulfill UCM's General Education Division II Area A Part II Technology requirement.
- A 2.25 GPA on all coursework is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# COMPUTER SCIENCE

## AREA 1: APPLIED COMPUTER SCIENCE, BACHELOR OF SCIENCE DEGREE

The computer industry is one of the fastest growing segments of our economy. Computers are used in almost every aspect of our lives from desktops at home and work to mainframe computers in government and industry to supercomputers expanding the frontiers of science and technology. More than ever, there is a demand for a work force with scientific and technical training necessary to perform effectively on the job.

UCM's Department of Mathematics and Computer Science is meeting this expanding need with a program that includes in-depth training in computer science. The undergraduate computer science curriculum is designed according to ACM's curricula recommendations and ABET's accreditation guidelines, and is periodically revised to meet the fast changing pace of today's information technology. It consists of classic topics in computer science, as well as a strong component of application programming and system design to align with the computer industry standards. Besides the software development arena, the curriculum also provides significant coverage of computer systems and architecture.

### Computer Facilities

The computer science program is supported by three laboratories of networked PCs running Linux and Windows. Electronic mail, World Wide Web access, programming language compilers, and a variety of computer software are available. Laboratory access is available via the Internet. The Computer Science program is a member of the Microsoft Developer Network Academic

Alliance (MSDNAA) and Oracle Academic Initiative (OAI).

### About the Faculty

Computer science classes are taught by experienced and caring faculty members who believe in individualized attention for their students. The student-faculty ratio at Central Missouri is about 17 to 1, which allows for personalized attention for each student. The computer science faculty conduct both theoretical and applied research in their own areas and publish their research results on major research journals. In addition, they also travel to give technical talks at various national/international conferences. They are committed to deliver today's technology to students.

### Student Involvement

The department sponsors a student chapter of ACM. It provides our computer science students with a platform of peer interaction and active participation in out-of-the-classroom experiences.

### Career Opportunities

Demand for information technology professionals in the United States and Missouri grows faster than universities can produce graduates. The Bureau of Labor Statistics listed the fastest growing occupations in the US that require a Bachelor's degree or higher through year 2018. Two of the top ten fastest growing occupations are computer related.

Computer science is one of the four high-demanded occupational categories in the state of Missouri. These disciplinary areas have been characterized as pivotal for the future

of the state. Similar to the national trend, three of the top ten fastest growing occupations in Missouri that require a Bachelor's degree or higher are computer related. Graduates from computer science programs have long known that CS leads to great jobs and careers.

Here at the University of Central Missouri, the job placement of our graduates is excellent. According to the recent report from the Office of Career Services at UCM, our computer science students are among the most successful in finding jobs. Our computer science graduates are employed in companies such as Sprint, Boeing, VMWare, Cerner, DST, YRC Worldwide, Honeywell, Mutual of Omaha, All-State, Huber and Associates, Shelter Insurance, AIG, Computer Associates International, Busch, and Scottrade.

### To Learn More

For more information, write to the Department of Mathematics and Computer Science, W.C. Morris 222, UCM, Warrensburg, MO 64093; call 660-543-4930; or visit the department's web page, at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Computer Science Major (Area 1 Applied Computer Science), B.S. Degree (43-01281)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
COMM 1000 Public Speaking	3	CS 1110 Computer Programming II	3
CS 1100 Computer Programming I	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	Area 1 Major Elective**	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CS 2300 Data Structures***	3	CS 1400 Discrete Structures***	3
CS 2500 C and UNIX Systems Programming***	3	CS 2200 Introduction to Computer Organization***	3
MATH 1151 Calculus & Analytic Geometry I	5	Area 1 Major Elective**	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CS 3200 Computer Architecture***	3	CS 3100 Programming Languages***	3
CS 4300 Algorithm Design & Analysis***	3	CS 4500 Operating Systems***	3
Area 1 Major Elective**	6	Area 1 Major Elective**	6
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CS 4600 Database Theory & Applications***	3	CS 4910 Software Engineering***	3
MATH 3311 Introduction to Mathematical Statistics***	3	Area 1 Major Elective**	3
Area 1 Major Elective**	3	General Education	3
General Education	6	Free Choice Electives	7
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Computer Science Major (Area 1 Applied Computer Science), B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Area 1 requires 24 hours of major electives. See the Undergraduate catalog for the list of appropriate course choices.
- \*\*\*This class is only offered during the semester indicated.
- #This class is only offered during the semester indicated and is only offered every other year.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# COMPUTER SCIENCE

## AREA 2: COMPUTER SCIENCE, BACHELOR OF SCIENCE DEGREE

The computer industry is one of the fastest growing segments of our economy. Computers are used in almost every aspect of our lives from desktops at home and work to mainframe computers in government and industry to supercomputers expanding the frontiers of science and technology. More than ever, there is a demand for a work force with scientific and technical training necessary to perform effectively on the job.

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### Computer Facilities

The computer science program is supported by three laboratories of networked PCs running Linux and Windows. Electronic mail, World Wide Web access, programming language compilers, and a variety of computer software are available. Laboratory access is available via the Internet. The Computer Science program is a member of the Microsoft Developer Network Academic

Alliance (MSDNAA) and Oracle Academic Initiative (OAI).

### About the Faculty

Computer science classes are taught by experienced and caring faculty members who believe in individualized attention for their students. The student-faculty ratio at Central Missouri is about 17 to 1, which allows for personalized attention for each student. The computer science faculty conduct both theoretical and applied research in their own areas and publish their research results on major research journals. In addition, they also travel to give technical talks at various national/international conferences. They are committed to deliver today's technology to students.

### Student Involvement

The department sponsors a student chapter of ACM. It provides our computer science students with a platform of peer interaction and active participation in out-of-the-classroom experiences.

### Career Opportunities

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trend, three of the top ten fastest growing occupations in Missouri that require a Bachelor's degree or higher are computer related. Graduates from computer science programs have long known that CS leads to great jobs and careers.

Here at the University of Central Missouri, the job placement of our graduates is excellent. According to the recent report from the Office of Career Services at UCM, our computer science students are among the most successful in finding jobs. Our computer science graduates are employed in companies such as Sprint, Boeing, VMWare, Cerner, DST, YRC Worldwide, Honeywell, Mutual of Omaha, All-State, Huber and Associates, Shelter Insurance, AIG, Computer Associates International, Busch, and Scottrade.

### To Learn More

For more information, write to the Department of Mathematics and Computer Science, W.C. Morris 222, UCM, Warrensburg, MO 64093; call 660-543-4930; or visit the department's web page, at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Computer Science Major (Area 2 Computer Science), B.S. Degree (43-02281)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
COMM 1000 Public Speaking	3	CS 1110 Computer Programming II	3
CS 1100 Computer Programming I	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	MATH 1151 Calculus & Analytic Geometry I	5
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CS 2300 Data Structures**	3	CS 1400 Discrete Structures I**	3
CS 2500 C and UNIX Systems Programming**	3	CS 2200 Introduction to Computer Organization**	3
MATH 1152 Calculus & Analytic Geometry II	5	Area 2 Major Elective***	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CS 3200 Computer Architecture**	3	CS 3100 Programming Languages**	3
CS 4300 Algorithm Design & Analysis**	3	CS 4500 Operating Systems**	3
Area 2 Major Elective***	3	Area 2 Major Elective***	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CS 4600 Database Theory & Applications**	3	CS 4910 Software Engineering**	3
MATH 3311 Introduction to Mathematical Statistics**	3	MATH 2153 Calculus & Analytic Geom. III or MATH 3710 Linear Algebra or MATH 4450 Intro. to Graph Theory	3
Area 2 Major Elective***	3	Area 2 Major Elective***	3
General Education	3	General Education	3
Free Choice Electives	4	Free Choice Electives	4
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

**Computer Science Major (Area 2 Computer Science), B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- \*\*\*Area 2 requires 15 hours of major electives. See the Undergraduate catalog for the list of appropriate course choices.
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## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# COMPUTER SCIENCE

## AREA 3: NETWORKING, BACHELOR OF SCIENCE DEGREE

The computer industry is one of the fastest growing segments of our economy. Computers are used in almost every aspect of our lives from desktops at home and work to mainframe computers in government and industry to supercomputers expanding the frontiers of science and technology. More than ever, there is a demand for a work force with scientific and technical training necessary to perform effectively on the job.

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### Computer Facilities

The computer science program is supported by three laboratories of networked PCs running Linux and Windows. Electronic mail, World Wide Web access, programming language compilers, and a variety of computer software are available. Laboratory access is available via the Internet. The Computer Science program is a member of the Microsoft Developer Network Academic

Alliance (MSDNAA) and Oracle Academic Initiative (OAI).

### About the Faculty

Computer science classes are taught by experienced and caring faculty members who believe in individualized attention for their students. The student-faculty ratio at Central Missouri is about 17 to 1, which allows for personalized attention for each student. The computer science faculty conduct both theoretical and applied research in their own areas and publish their research results on major research journals. In addition, they also travel to give technical talks at various national/international conferences. They are committed to deliver today's technology to students.

### Student Involvement

The department sponsors a student chapter of ACM. It provides our computer science students with a platform of peer interaction and active participation in out-of-the-classroom experiences.

### Career Opportunities

Demand for information technology professionals in the United States and Missouri grows faster than universities can produce graduates. The Bureau of Labor Statistics listed the fastest growing occupations in the US that require a Bachelor's degree or higher through year 2018. Two of the top ten fastest growing occupations are computer related.

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trend, three of the top ten fastest growing occupations in Missouri that require a Bachelor's degree or higher are computer related. Graduates from computer science programs have long known that CS leads to great jobs and careers.

Here at the University of Central Missouri, the job placement of our graduates is excellent. According to the recent report from the Office of Career Services at UCM, our computer science students are among the most successful in finding jobs. Our computer science graduates are employed in companies such as Sprint, Boeing, VMWare, Cerner, DST, YRC Worldwide, Honeywell, Mutual of Omaha, All-State, Huber and Associates, Shelter Insurance, AIG, Computer Associates International, Busch, and Scottrade.

### To Learn More

For more information, write to the Department of Mathematics and Computer Science, W.C. Morris 222, UCM, Warrensburg, MO 64093; call 660-543-4930; or visit the department's web page, at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Computer Science Major (Area 3 Networking), B.S. Degree (43-02281)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
COMM 1000 Public Speaking	3	CS 1110 Computer Programming II	3
CS 1100 Computer Programming I	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	Area 3 Major Elective**	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CS 2300 Data Structures***	3	CS 1400 Discrete Structures I***	3
CS 2500 C and UNIX Systems Programming***	3	CS 2200 Introduction to Computer Organization***	3
MATH 1151 Calculus & Analytic Geometry I	5	Area 3 Major Elective**	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CS 3200 Computer Architecture***	3	CS 3100 Programming Languages***	3
CS 4300 Algorithm Design & Analysis***	3	CS 4500 Operating Systems***	3
Area 3 Major Elective**	3	Area 3 Major Elective**	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CS 4600 Database Theory & Applications***	3	CS 4910 Software Engineering***	3
MATH 3311 Introduction to Mathematical Statistics***	3	Area 3 Major Elective**	6
Area 3 Major Elective**	6	General Education	3
Free Choice Electives	3	Free Choice Electives	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Computer Science Major (Area 3 Networking), B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Area 3 requires 24 hours of major electives. See the Undergraduate catalog for the list of appropriate course choices.
- \*\*\*This class is only offered during the semester indicated.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# CONSTRUCTION MANAGEMENT

BACHELOR OF SCIENCE DEGREE

University of Central Missouri's Bachelor of Science in Construction Management degree program prepares individuals to enter and excel in a construction management career. This construction management program focuses on the development of competencies regarding teamwork, written and oral communication, project management and field management. The curriculum has been carefully balanced to provide students with the technical theory, "hands-on" knowledge, management skill, and communication know-how needed to manage the complete construction process.

This field has shown continual growth and extends from residential to heavy/highway construction. Coursework includes computer estimating, construction methods, design principles, building codes, scheduling, materials, safety, project management, legal aspects, soils and site layout. Graduates are employed in such positions as field engineers, cost estimators, project managers, construction managers, and construction quality assurance managers.

### Professional Accreditation

Central Missouri's baccalaureate programs in manufacturing, construction, and electronics are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE). The Construction Management program is also accredited by the American Council for Construction Education (ACCE). The program has international recognition by the Chartered Institute of Building in the United Kingdom.

### Student Involvement

Student organizations in the School of Technology include the Student Organization of Construction Managers (SOCM). SOCM is the umbrella organization for Associated General Contractors of America (AGC), Associated Builders and Contractors, Inc. (ABC), and the Association for the Advancement of Cost Engineers (AACE). In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### Scholarships

Construction industry scholarships are offered by such organizations as the American Society of Professional Estimators, Associated Builders and Contractors, Associated General Contractors of America, Association for the Advancement of Cost Engineers International, Centex Homes, Coleman Industrial Construction Inc., Concrete Reinforcing Steel Institute, Construction Specifications Institute of Kansas City, Crossland Construction Co., Garney Construction Company, Heavy Constructors Association, J.E. Dunn Construction Company, Kansas City Builders Association, Midwest Concrete Industry Board, National Association of Women in Construction, and Septagon Construction Co.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, call 1-660-543-4439. The school's web address is

[www.ucmo.edu/technology](http://www.ucmo.edu/technology) and its fax number is 1-660-543-4578.

For admission information, call 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Construction Management Major, B.S. Degree (43-239)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CADD 1105 Basic AutoCAD	1	BTE 1210 Essentials of Managing Information	2
CADD 1110 Fundamentals of Drafting	2	CMGT 2310 Construction Plans & Specifications	3
CMGT 1300 Introduction to Construction Management	2	ENGL 1030 Composition II	3
CMGT 1301 Seminar in Construction Management	.5	MATH 1112 College Trigonometry	2
EASC 1004 Introduction to the Sciences: Geology	4	PHYS 1103 Introduction to the Sciences: Physics	3
ENGL 1020 Composition I	3	General Education	3
MATH 1111 College Algebra	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15.5</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CMGT 2020 Statics	3	CADD 3160 Res. Arch. Drawing or CADD 3150 Civil Drafting or CADD 2160 Structural Drafting	3
CMGT 2325 Project Cost Estimating	3	CMGT 1301 Seminar in Construction Management	.5
CMGT 2340 Surveying & Construction Layout	3	CMGT 3020 Applied Strength Materials	3
MATH 1150 Pre-Calculus Mathematics	4	EASC 2100 Engineering Geology	4
General Education	3	ECON 1010 Principles of Macroeconomics	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>16.5</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting	3	ACCT 2102 Principles of Managerial Accounting or MKT 3405 Marketing Policy*	3
CMGT 1301 Seminar in Construction Management	.5	BLAW 2720 Legal Environment of Business	3
CMGT 3330 Building Codes & Code Administration	3	CMGT 3320 Principles of Construction Management	3
CMGT 3355 Construction Planning & Scheduling	3	ENGT 2040 Engineering Material Science	4
MGT 3315 Management of Organizations* or INDM 4210 Industrial Management	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15.5</b>		
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology**	1		
<b>Semester Total</b>	<b>1</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CMGT 1301 Seminar in Construction Management	.5	CMGT 4310 Construction Safety	3
CMGT 3350 Building Structures: Methods & Materials	3	CMGT 4325 Advanced Estimating	3
CMGT Elective***	3	CMGT Elective***	3
HRM 3920 Human Resources Management or INDM 4260 Organizational Dynamics	3	ICAP 4109 Construction Operations	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>15</b>

**Construction Management Major, B.S. Degree - Minimum hours 127**

- \*Students can complete a Business Administration minor by choosing MGT 3315 and MKT 3405 in the major and adding CIS 1600 (3 hours) as an elective.
- \*\*SOT 3022 Internship in Technology should be done during the summer between the junior/senior years.
- \*\*\*CMGT electives include: CMGT 4330 Mechanical Systems for Buildings, CMGT 4355 Computer-Based Project Control, and CMGT 4380 Heavy Construction: Methods and Materials.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Communication and Sociology

# CORPORATE COMMUNICATION

## BACHELOR OF SCIENCE DEGREE

The ability to communicate effectively is one of the most important skills an individual can possess in this era of rapid informational and technological change. The skills to gather information and communicate that information in written, oral or electronic forms are the hallmark of the programs in the University of Central Missouri's Department of Communication and Sociology.

The corporate communication major is designed to prepare graduates to formulate messages for the organization and its divisions, for upper-level management personnel, and for other personnel within the organization. This includes the ability to apply communication knowledge and skills to a wide range of administrative, managerial, economic, and human relations situations. Such flexibility is particularly important because many employers provide training in the specialized skills required for a position, but do not provide training in effective communication skills. Students are prepared to be a communication manager who can assess, develop diagnoses, facilitate and plan communication practices and programs.

This program focuses on educating students to train others in the use of effective communication, specifically in an organizational

setting. Both knowledge and skills are developed in the classroom, and then students apply those abilities in professional settings. Therefore, all corporate communication majors are required to complete an internship prior to graduation. Internship sites in business and government offices are selected by students in collaboration with faculty members. Intern placement is based on suitable grade point averages and successful completion of certain required courses.

A complementary minor, such as business administration, journalism, management, marketing, mass communication, psychology, recreation or sociology, is encouraged.

### Faculty

There are 20 full-time faculty members in the Department of Communication and Sociology with work experience and scholarly expertise in their areas of specialization. Graduate assistants complement the laboratory programs as teachers and managers.

### Student Involvement

University of Central Missouri students are encouraged to take part in co-curricular activities that relate to their major. Communication organizations open to students include the International Association of Business Communications and Lambda Pi Eta, among others. Additionally, internships are supervised by faculty members and provide students with a variety of experiences. The Department of Communication and Sociology promotes undergraduate and graduate learning experiences at Glamorgan University, Pontypridd Wales; Napier University, Edinburgh, Scotland; and Monterrey TEC (ITESM-CEM), Mexico, as well as the multi-national experiences provided by the Middleburg Center for Transatlantic Studies in Middleburg, The Netherlands.

### To Learn More

For more information, write to the Department of Communication and Sociology, Martin 136, UCM, Warrensburg, MO 64093; call 660-543-4840; or visit the department's home page at [www.ucmo.edu/commun/](http://www.ucmo.edu/commun/).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's web site is [www.ucmo.edu](http://www.ucmo.edu).

**Corporate Communication Major, B.S. Degree (43-356)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
COMM 1000 Public Speaking	3	General Education	3
COMM 1100 Introduction to Communication	1	COMM 2100 Introduction to Communication Theory	3
COMM 2380 Introduction to Organizational Communication	3	General Education	6
General Education	<b>13</b>	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>			
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
COMM 2325 Improving Listening Abilities*	3	ANTH 1820 or GEOG 3201 or WS 2000	3
COMM 2330 Small Group Communication	3	COMM 2620 Public Relations	3
Minor Coursework	3	COMM 3327 Improving Interview Skills*	3
General Education	7	General Education	5-6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14-15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
COMM 3100 Communication Research Methods	3	COMM 3010 Interpersonal Communication	3
Minor Coursework	6	COMM 3730 Communication Conflict Management*	3
General Education	6	COMM 4780 Advanced Theories of Org. Comm.*	3
<b>Semester Total</b>	<b>15</b>	Minor Coursework	3
		Free Choice Electives	4
		<b>Semester Total</b>	<b>16</b>
<b>Summer - Between Junior/Senior Year</b>	<b>Hrs.</b>		
COMM 4785 Internship	3-6		
<b>Semester Total</b>	<b>3-6</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
COMM 3350 Professional Communication*	3	COMM 4475 New Media Technologies*	2
IGEN 3224 or 3232 or 4224	3	COMM 4783 Communication Training*	3
Minor Coursework	6	Minor Coursework	3
Free Choice Electives	4	Upper-Level Free Choice Elective**	1
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	7
		<b>Semester Total</b>	<b>16</b>

**Corporate Communication Major, B.S. Degree - 124 hours**

- \*Course if offered only in the semester indicated.
- \*\*This major does not build in the minimum number (30) of upper level credit hours required for graduation. Be sure to include upper level choices (3000/4000) in your general education, minor, and/or free choice electives.
- During the last semester of the senior year, all graduates must submit a portfolio following the internship and complete a knowledge exam. See department adviser for requirements.
- The plan is based on a 21-hour minor.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## Harmon College of Business and Professional Studies

Department of Criminal Justice

# CRIMINAL JUSTICE

## BACHELOR OF SCIENCE DEGREE

The undergraduate criminal justice program at UCM offers a balanced standards-based curriculum of classroom studies and practical experience. The program is broad and includes courses in criminal justice management and administration, policing, criminal investigation, forensics, the legal system, law, corrections, probation and parole, the juvenile justice system, and international criminal justice.

The majority of criminal justice employers stress the importance of a college education, and individuals' educational backgrounds influence their opportunities for promotion and command responsibility in the criminal justice field. UCM's Criminal Justice degree program is designed to provide students with the knowledge and training they need for career entry and advancement. It is one of the oldest criminal justice programs in the nation. This program is also one of the largest and most highly respected in the world.

### Special Facilities

In addition to the Department of Criminal Justice's extensive classroom facilities in the Pauline A. Humphreys Building, two institutes have been established at UCM to fulfill specialized needs of the criminal justice system.

The National Police Institute meets the needs of police officers and administrators around the country. Programs include training both at local and off-campus sites. The Institute of Justice and International Studies supports collaboration between students and faculty around the world.

### About the Faculty

The faculty is composed of highly qualified and dedicated individuals who possess the necessary education and experience to present the theoretical and practical aspects of criminal justice. Eighty percent of the department's faculty members hold earned doctorates, and some have received their Doctor of Jurisprudence degrees. Active research, workshop and seminar participation, as well as professional field service, keep faculty members on the cutting edge with their ever-growing field. UCM's criminal justice faculty members have become notable in a variety of research areas, including issues surrounding police accountability, juvenile justice, domestic and international terrorism, probation and parole, and the crime of sexual assault, among others.

### Career Opportunities

Numerous employment opportunities are available for men and women interested in criminal justice positions. Employment opportunities exist with federal agencies; private industry; educational institutions; city, county and state agencies; the Armed Forces; and correctional and rehabilitation agencies. Among UCM's criminal justice alumni are judges, attorneys, professors, hundreds of chiefs of police and police administrators from all parts of the world, as well as members of almost every federal law enforcement and corrections agency.

The department boasts a 97% employment rate of their graduates within six months of graduation. The university's Office of Career Services assists criminal justice majors and other students who are seeking

employment. Interviews are conducted on campus throughout the year.

### Student Involvement

There are many ways for criminal justice students to become involved on campus. The department sponsors four career-oriented organizations, a chapter of Alpha Phi Sigma, National Criminal Justice Honor Society; American Criminal Justice Association - Lambda Alpha Epsilon; Pre-Law Students Association, a mock trial team; and a student chapter of the American Correctional Association. These organizations are dedicated to the promotion of high standards of professionalism in criminal justice disciplines. Moreover, Lambda Alpha Epsilon (LAE) has distinguished itself in both regional and national competitions with other LAE organizations by sweeping top honors each year 2003-2010.

The department also offers an internship course to qualified students. Internships allow students to gain practical experience in the operation of various components of the criminal justice system. Internships are available with law enforcement agencies, correctional institutions, juvenile justice agencies and other areas related to criminal justice. Stipends are provided to interns by some participating agencies.

### To Learn More

For more information write to the Department of Criminal Justice, 300 Humphreys, UCM, Warrensburg, MO 64093, or call 660-543-4950. The department's web address is [www.ucmo.edu/cj](http://www.ucmo.edu/cj).

**Criminal Justice Major, B.S. Degree (43-842)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CJ 1000 Introduction to Criminal Justice	3	CJ 3010 Policing a Democratic Society	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CJ 2315 The Criminal Court System	3	CJ 3006 Corrections	3
CJ Major Elective	3	CJ Major Elective	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
SOC 3890 Criminology	3	CJ Major Elective	3
General Education	3	General Education (IGEN/ICAP)	3
Free Choice Electives	9	Free Choice Elective	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CJ 3600 Introduction to CJ Research & Statistics	3	CJ 4605 Senior Seminar in Criminal Justice	3
CJ Major Elective	3	CJ Major Elective	3
Free Choice Electives	9	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Criminal Justice Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- This major does not require a minor, but one is strongly recommended. Most minors are between 18-24 credit hours. This major contains 39 hours of free choice electives, this gives a lot of flexibility for the addition of a minor, double minor, or double major. The number of free choice electives required will vary depending on the minor chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

*Institute for Rural Emergency Management*

# CRISIS AND DISASTER MANAGEMENT

## BACHELOR OF SCIENCE DEGREE

The field of emergency management has advanced in recent decades, resulting in an increase in demand for qualified professionals. Citizens benefit from degreed crisis managers in the event of natural or man-made disasters. Homeland Security agencies are seeking qualified professionals with experience and education. The University of Central Missouri is preparing graduates for this growing field through its Bachelor of Science in Crisis and Disaster Management degree. Students who participate in this program may concentrate in the areas of emergency management, hazardous materials or business continuity.

The BS in Crisis and Disaster Management facilitates individual professional development in a student-centered learning environment. Its multidisciplinary curriculum focuses on the principles of preparedness, response, mitigation, and recovery in an integrated program of study. Students who seek this degree are required to complete a practicum which provides them with valuable experience in the field to compliment their educational accomplishments.

### **Career Opportunities**

The Crisis and Disaster Management degree program

addresses the need within the state of Missouri and across the United States for technically educated emergency management professionals. Courses offered in the program are designed for individuals who are interested in the following careers:

- Public safety personnel (emergency management, fire, and homeland security)
- Industrial emergency responders (fire, rescue, and hazardous materials)
- Institutional emergency planners (schools, hospitals and prisons)
- Business continuity planners (banking, corporations, insurance, and manufacturing)

### **About the Faculty**

UCM's 17-1 student-faculty ratio allows for personalized attention and mentoring. In addition to diverse backgrounds and experience in their fields of expertise, several faculty members hold professional certification. They are also active participants in research, writing and presentations at state, national and international professional conferences.

Other sources of departmental strength include working relationships between program faculty, the Department of Homeland Security, Federal Emergency Management Agency, Occupational Safety and

Health Administration, Environmental Protection Agency, and the corresponding state level agencies.

### **Student Involvement**

Students are encouraged to participate in professional organizations.

The Institute for Rural Emergency Management at UCM offers an opportunity for service learning to students by assisting rural communities and high-risk organizations to prepare for the inevitable emergency and potential disaster. These real-world experiences are vital to prepare students for the challenging careers that await them.

### **To Learn More**

For more information, contact Dianna Bryant, Institute for Rural Emergency Management, Humphreys 304, UCM, Warrensburg, MO 64093, at 660-543-4971. The department's web address is [www.ucmo.edu/irem](http://www.ucmo.edu/irem) and its email address is [irem@ucmo.edu](mailto:irem@ucmo.edu).

For admission information, call 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Crisis and Disaster Management, B.S. Degree (43-248, 250, 251)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester ENGL 1020 Composition I General Education <b>Semester Total</b> AE 1400 Freshman Seminar*	<b>Hrs.</b> 3 9-10 <b>12-13</b> 1	<b>Freshman Year</b> - Spring Semester ENGL 1030 Composition II General Education <b>Semester Total</b>	<b>Hrs.</b> 3 12 <b>15</b>
<b>Sophomore Year</b> - Fall Semester CDM 3000 Introduction to Crisis & Disaster Management General Education <b>Semester Total</b>	<b>Hrs.</b> 3 11-12 <b>14-15</b>	<b>Sophomore Year</b> - Spring Semester CHEM 1103 or 1104 Intro. to the Sciences: Chemistry General Education Free Choice Electives <b>Semester Total</b>	<b>Hrs.</b> 3-4 3 9 <b>15-16</b>
<b>Junior Year</b> - Fall Semester CDM 3400 Community Mitigation & Recovery SAFE 3015 or CDM 3225 or CDM 4715** Free Choice Electives <b>Semester Total</b>	<b>Hrs.</b> 3 3 9 <b>15</b>	<b>Junior Year</b> - Spring Semester CDM 3035 or CDM 4245 or CDM 4745** CDM 4200 Disaster Management Technology Free Choice Electives <b>Semester Total</b>	<b>Hrs.</b> 3 3 8 <b>14</b>
<b>Summer</b> - Between Junior & Senior Year CDM 4900 Technology Application Studies*** CDM 4990 Practicum in CDM# <b>Semester Total</b>	<b>Hrs.</b> 3 3 <b>6</b>		
<b>Senior Year</b> - Fall Semester CDM 4400 Research Issues in CDM CDM 4910 Field Exercise Project*** Departmentally Approved Technical Elective General Education (IGEN/ICAP) Free Choice Elective <b>Semester Total</b>	<b>Hrs.</b> 3 3 3 3 3 <b>15</b>	<b>Senior Year</b> - Spring Semester CDM 4035 or SAFE 4215 or 4720** CDM 4800 Integrated Emergency Management Free Choice Electives <b>Semester Total</b>	<b>Hrs.</b> 3 3 7 <b>13</b>

**Crisis and Disaster Management, B.S. Degree – 120 hrs**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Course choice will depend on the Option chosen: Emergency Management Option, Hazardous Materials Option, or the Business Continuity Option.
- \*\*\*CDM 4900 and 4910 can be taken any semester after the sophomore year.
- #CDM 4990 is a practicum in CDM that can be taken for 3-6 hours.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

**College of Health, Science, and Technology**  
*School of Technology*

# DESIGN & DRAFTING TECHNOLOGY

BACHELOR OF SCIENCE DEGREE

Offering its first drafting class in 1904, the University of Central Missouri has a strong reputation for teaching Design & Drafting Technology courses. With evolving technology, and the demand for educated professionals increasing each year, the university's School of Technology continues to prepare graduates for challenging and rewarding careers in computer-aided drafting and design (CADD).

One of only four baccalaureate programs in the country, Central Missouri's Design & Drafting Technology program enrolls the largest number of declared Design & Drafting Technology majors of any university in the state. The American Design Drafting Association tests and certifies students upon graduation. This is the only four-year baccalaureate Design & Drafting Technology program accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

The school's Design & Drafting Technology program enjoys an excellent reputation as a national leader in the preparation of qualified, successful graduates. Many companies compete vigorously to hire graduates of this program.

Design & Drafting Technology prepares individuals for technical positions leading to design and management opportunities in industry. Graduates of this program have a

broad-based background in CADD and elect an area of specialization tailored to their career goals. The areas of specialization include: Mechanical (Product/Machine) Design, Architectural/Structural, Civil/GIS, and Computer Graphics.

## Internships

All Design & Drafting Technology students must complete an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are usually scheduled during the last half of an undergraduate program. Students earn from one to six semester hours of credit upon completion of an internship.

## State-of-the-Art Facilities

Central Missouri's CADD facilities house more than 80 computers for student use and are among the most technologically advanced in the Midwest. CADD labs are equipped with the latest workstations housing the most up-to-date software. Whether it's traditional drafting, computer drafting, or three-dimensional modeling, students can be assured that with UCM's Design & Drafting Technology program, they will be confident in their skills upon graduation.

## About the Faculty

Students learn from highly experienced full-time faculty members who provide individualized student program advisement. The university's modest student-faculty ratio allows students to benefit from personalized attention. Faculty members are active in research and writing, and they participate in workshops and seminars to stay current in their field.

## Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The student chapter of the American Design Drafting Association helps keep students current with events and activities in their career field. The American Institute of Building Design student chapter allows students to interface with professional designers and expand their opportunities in building design.

## To Learn More

For more information write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, call 660-543-4439, or visit the school's web site and click on:  
[www.ucmo.edu/technology](http://www.ucmo.edu/technology).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Design & Drafting Technology Major, B.S. Degree (43-568)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
BTE 1210 Essentials of Managing Information	2	CADD 1120 Machine Drafting*	3
CADD 1100 Orientation to Drafting*	1	CADD 2170 Introduction Computer-Aided Drafting	2
CADD 1105 Basic AutoCAD	1	CADD 2171 Introduction to MicroStation	2
CADD 1110 Fundamentals of Drafting	2	EASC 1004 Introduction to the Sciences: Geology (required for Areas 2 & 4) or non PHYS Gen. Ed. Sci.	3-4
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1111 College Algebra	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CADD 2100 Sophomore Design/Drafting Seminar	.5	CADD 2180 Technical Illustration	3
CADD 2150 Descriptive Geometry for Engin. Technology	3	CMGT 2020 Statics	3
CADD 2160 Structural Drafting	3	PHYS 1104 Introduction to the Sciences: Physics	4
GEOG 2212 World Geography	3	General Education	6
MATH 1112 College Trigonometry	2	<b>Semester Total</b>	<b>16</b>
General Education	3		
<b>Semester Total</b>	<b>14.5</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CADD 3100 Junior Design/Drafting Seminar	.5	CADD 3170 Computer Drafting Systems	3
CADD 3150 Civil Drafting	3	CTE 3060 Technical Writing	3
ENGT 2530 Machine Tool Technology	3	MGT 3315 Management of Organizations or INDM 4250 Project Management***	3
Major Area Electives**	3	Major Area Electives**	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CADD 4100 Senior Design/Drafting Seminar	1	CADD 3175 Managing Computer Applications for Drafting	3
CADD 4170 CADD for Engineering Technology	3	CADD 4180 Industrial Design	3
IGEN 3116 Creative Problem Solving	3	HRM 3920 Human Resource Management or INDM 4260 Organizational Dynamics***	3
SOT 3022 Internship in Technology	1	Major Area Electives**	6
SOT 4570 Computer Graphics	3	<b>Semester Total</b>	<b>15</b>
Major Area Electives**	3		
<b>Semester Total</b>	<b>14</b>		

**Design & Drafting Technology Major, B.S. Degree - 121-122 hours**

- \*This class is only offered the semester indicated.
- \*\*Students choose an area of specialty from the following four options: Mechanical (Product/Machine) Design, Architectural/Structural, Civil/GIS, or Computer Graphics. Fifteen credit hours of Major Area Electives are required. See the Undergraduate Catalog and the Program Coordinator for the list of approved classes in each area.
- \*\*\*Students either take MGT 3315 and HRM 3920 OR INDM 4250 and INDM 4260.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# DIETETICS

## BACHELOR OF SCIENCE DEGREE

Featuring small classes with personalized attention, University of Central Missouri's undergraduate program in dietetics is the only one of its kind in west central Missouri. It has received continued accreditation by the Commission on Accreditation of Dietetics Education (CADE) through the American Dietetic Association since 1957.

The dietetics program prepares students academically to meet the university's Bachelor of Science degree criteria while meeting the foundational knowledge and skills necessary to enter a post-baccalaureate dietetic internship. Students are then eligible to take the national registration exam to receive the credentials of Registered Dietitian (R.D.).

Through a foundation in liberal arts, service learning, technology and research, the student is prepared to be a lifelong learner who is able to enhance the field of dietetics.

### Career Opportunities

Dietitians study a variety of subjects ranging from food and nutrition sciences, food service systems management, business economics, sociology, communication, as well as chemistry, anatomy, physiology, microbiology, and biochemistry. Since the field of dietetics is a high-tech science of applying food and nutrition to health, it is a vital, growing field open to many directions and opportunities.

Health, nutrition, and fitness

have become a way of life. As a registered dietitian, a graduate can work in hospitals, for HMOs or other health care facilities; community and public health settings; fitness, sports nutrition and corporate wellness programs; education and research; sales, marketing and public relations; government; restaurant management; food companies, and private practice. The direction you take and how far you take it is your choice.

Students are now working as clinical dietitians, consulting dietitians, community nutritionists, fitness-wellness specialists, and diabetes educators. Students who do not seek post-graduate internships are employed as nutritionists, community nutritionists, and school lunch program directors.

### Internships

Completing a bachelor's degree is only one step in the process of becoming a dietitian. The student also needs practical experience. This is what the internship provides. It must provide a minimum of 1200 hours of supervised practice, and is completed in six to 12 months, depending on the program. To apply for an internship, individuals must complete their bachelor's degree that includes CADE-approved coursework. The program at UCM provides the courses needed for completion of a bachelor's degree. Following the dietetic internship, the national registration examination is taken to attain the Registered Dietitian status.

### Student Involvement

UCM offers many opportunities for students to get involved with individuals who share similar interests. The Student Dietetic Association, for example, gives students an opportunity to take part in campus wellness activities, National Nutrition Month, listen to guest speakers, attend dietetic conventions and meetings.

### Scholarships

In addition to many different types of scholarships offered on campus, dietetics students may be eligible for scholarships from the American Dietetic Association, the Missouri Dietetic Association, as well as the Kansas City Dietetic Association. Dietetics students may also be eligible to apply for the McClain Scholarships and McClain Distinguished Scholarships, some of the most prestigious awards at UCM.

### For More Information

To learn more about majoring in dietetics, contact the Department of Nutrition and Kinesiology at 660-543-4256, visit the web page at [www.ucmo.edu/nutrition](http://www.ucmo.edu/nutrition), or stop by our office in North Morrow 100.

**Dietetics Major, B.S. Degree (43-274)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
D&N 1300 Introduction to Dietetics	1	CHEM 1104 Introduction to the Sciences: Chemistry	4
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PSY 1100 General Psychology	3	SOC 1800 General Sociology	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	ACCT 2100 Survey of Accounting	3
FOOD 2322 Food Preparation	3	BIOL 2402 Anatomy & Physiology II	4
HM 2830 Hotel-Restaurant Sanitation and Safety	2	D&N 3340 Nutrition	3
General Education	5	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 3611 Microbiology	4	CHEM 1604 Elementary Organic & Biochemistry	4
FOOD 3332 Quantity Food Production & Service	3	FOOD 3334 Advanced Food Systems Management	3
FOOD 3333 Food Systems Management	3	PSY 4520 Statistics for the Behavioral Sciences	3
Free Choice Electives	6	General Education	3
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	2
		<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2511 Genetics	4	D&N 3350 Community Nutrition	3
D&N 4340 Advanced Nutrition	3	FOOD 4326 Experimental Foods	3
D&N 4342 Medical Nutrition I	3	D&N 4343 Medical Nutrition II	3
D&N 4345 Senior Dietetics Seminar	3	Free Choice Electives	5
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>14</b>

**Dietetics Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- Registration as a dietitian requires internship beyond BS degree. Fulfills the "Didactic Program in Dietetics Academic Requirements" of the American Dietetic Association.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## Harmon College of Business and Professional Studies

Department of Economics, Finance, and Marketing

# ECONOMICS

## BACHELOR OF ARTS DEGREE

At its roots, the study of economics provides a foundation for understanding the motivation of individuals and firms as well as the forces that cause growth in living standards, recessions, and inflation. Whether your interests focus on personal issues, such as understanding the incentives that induce human behaviors, or examining issues of critical social importance, economics is a stimulating, broad-based field with wide-ranging employment opportunities.

The Bachelor of Arts in Economics provides students with a broad-based economics education and includes an emphasis on basic competency in a foreign language. The general nature of this program is ideal for students interested in ultimately pursuing a law degree. Further, the availability of a large number of electives in economics allows students to gain greater insight into fields such as money and capital markets, environmental economics, and alternative economic systems.

### About the Faculty

Economics classes at UCM are taught by dynamic, experienced and nationally recognized faculty members who provide personalized attention for each student. These faculty members bring diverse training and work experiences to the classroom and are actively engaged in economic research. This research, which includes environmental aid, labor market analysis, valuation

of sports teams and investigations of statistical methodologies, along with involvement in professional organizations, places the faculty at the forefront of their respective fields.

### Student Involvement

Students pursuing an economics degree have access to a variety of campus organizations and events. The Department of Economics, Finance and Marketing sponsors the Economics Club which promotes social interaction between students and faculty.

In addition to on-campus activities, students are encouraged to complete an internship in economics in order to gain greater practical skills and insight during the completion of the undergraduate degree.

### Special facilities

The department's offices are housed in the Dockery Building. Classrooms, however, are located in the state-of-the-art Ward Edwards Building, which includes a large computer lab, group computer rooms, group and individual study rooms, student organization offices, and common areas for students. Classrooms are equipped with up-to-date computer hardware and software.

### Placement

Training in economics will give you practical skills and many career choices. An economics degree or background is ideal for students planning for careers in the following areas: research analysts for private corporations such as banks, financial service institutions, and insurance companies; consultants for management, data processing, and health care firms; and analysts for government agencies at the federal, state, and local levels. Studies show that the average compensation for graduates holding an economic degree is higher than all other undergraduate fields except engineering.

UCM's Office of Career Services assists students in finding employment throughout the academic year. Recent graduates have landed a variety of positions in diverse settings including: Ph.D. programs and law schools, the Central Intelligence Agency, managerial consultants; financial brokers; and analysts for the state of Missouri.

### To Learn More

For more information, contact the Department of Economics, Finance, and Marketing, UCM, Warrensburg, MO 64093 at 660-543-4246. The department's web address is [www.ucmo.edu/econ](http://www.ucmo.edu/econ).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Economics Major, B.A. Degree (42-536)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	ECON 1011 Principles of Microeconomics	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1111 College Algebra	3	POLS 1510 American Government	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 or BADM 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECON 2010 Orientation to the Economics Major (Fall only)	2	Modern Language Requirement**	3
Modern Language Requirement**	3	Minor Coursework	3
Minor Coursework	3	General Education	6
General Education	9-10	Free Choice Elective	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ECON 3010 Intermediate Macroeconomics	3	ECON 3030 Intermediate Microeconomics	3
Major Electives***	3	Major Electives***	6
Minor Coursework	3	Minor Coursework	6
Modern Language requirement**	3	<b>Semester Total</b>	<b>15</b>
Free Choice Elective	3		
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
Major Electives***	6	ECON 4000 Portfolio Assessment (Spring only)	1
Minor Coursework	6	Major Electives***	6
Free Choice Elective	4	Minor Coursework	3
<b>Semester Total</b>	<b>16</b>	General Education (IGEN or ICAP)	3
		Free Choice Electives	3
		<b>Semester Total</b>	<b>16</b>

**Economics Major, B.A. Degree - 124 Hours**

- \*AE 1400 or BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Refer to the Bachelor's Degree Requirements section of the catalog for the B.A. Modern Language requirement. This plan is based on nine hours of modern language.
- \*\*\*Some major electives are offered fall or spring semester only, or are only taught online – check with the department for course offerings.
- This degree program is based on a 24-hour minor. The number of free choice electives required will vary with minor choice.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Economics, Finance, and Marketing

# ECONOMICS

## BACHELOR OF SCIENCE DEGREE - AREA 1 APPLIED ECONOMICS

At its roots, the study of economics provides a foundation for understanding the motivation of individuals and firms as well as the forces that cause growth in living standards, recessions, and inflation. Whether your interests focus on personal issues, such as understanding the incentives that induce human behaviors, or examining issues of critical social importance, economics is a stimulating, broad-based field with wide-ranging employment opportunities.

The Bachelor of Science in Economics (Area 1 Applied Economics) provides students with a focused education in analytical economics. Most economists in business or academia are expected to have a strong analytical background in mathematical and statistical analysis, and the B.S. in Economics requires students to complete courses in statistical analysis, managerial economics and business management.

In addition to rigorous training in economics, the B.S. in Economics (Area 1 Applied Economics) requirements provide an overview of all business areas. Students are required to complete courses in accounting, computer information systems, management, and marketing. This extensive training makes it possible for our graduates to target a wide variety of employment opportunities or continue their education in graduation school.

### About the Faculty

Economics classes at UCM are taught by dynamic, experienced and nationally recognized faculty members who provide personalized attention for each student. These faculty members bring diverse

training and work experiences to the classroom and are actively engaged in economic research. This research, which ranges from environmental aid to valuation of sports teams to investigations of statistical methodologies, along with extensive involvement in professional organizations, places the faculty at the forefront of their respective fields.

### Student Involvement

Students pursuing an economics degree have access to a variety of campus organizations and events. The Department of Economics, Finance, and Marketing sponsors the Economics Club which promotes social interaction between students and faculty.

In addition to on-campus activities, students are encouraged to complete an internship in economics in order to gain greater practical skills and insight during the completion of the undergraduate degree.

### Special Facilities

The department's offices are housed in the Dockery Building. Classrooms, however, are located in the state-of-the-art Ward Edwards Building, which includes a large computer lab, group computer rooms, group and individual study rooms, student organization offices, and common areas for students. Classrooms are equipped with up-to-date computer hardware and software. In addition to the standard classrooms, the department maintains a statistics classroom in which each student workstation is equipped with a notebook computer, allowing for hands-on learning of the procedures available in statistical software packages.

### Placement

Training in economics will give you practical skills and many career choices. An economics degree or background is ideal for students planning for careers in the following areas: research analysts for private corporations such as banks, financial service institutions, and insurance companies; consultants for management, data processing, and health care firms; and analysts for government agencies at the federal, state, and local levels.

UCM's Office of Career Services assists students in finding employment throughout the academic year. Recent graduates have landed a variety of positions in diverse settings including: Ph.D. programs and law schools, the Central Intelligence Agency, managerial consultants; financial brokers; and analysts for the state of Missouri.

### To Learn More

For more information, write to the Department of Economics, Finance, and Marketing, UCM, Warrensburg, MO 64093 or call 660-543-4246. The department's web address is [www.ucmo.edu/econ](http://www.ucmo.edu/econ).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Economics Major, B.S. Degree - Area 1 Applied Economics (43-537)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management	3	COMM 1000 Public Speaking	3
ECON 1010 Principles of Macroeconomics	3	ECON 1011 Principles of Microeconomics	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1111 College Algebra	3	POLS 1510 American Government	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 or BADM 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting	3	ACCT 2102 Principles of Managerial Accounting	3
General Education	12	ECON 2010 Orientation to the Economics Major (Spr. only)	2
<b>Semester Total</b>	<b>15</b>	FIN 2801 Business Statistics I	3
		General Education	7
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BLAW 2720 Legal Environment of Business	3	CIS 3630 Management Information Systems	3
ECON 3010 Intermediate Macroeconomics (Fall only)	3	ECON 3030 Intermediate Microeconomics	3
FIN 3801 Business Statistics II	3	MGT 3325 Business Communications	3
FIN 3850 Principles of Finance	3	MGT 3360 Production/Operations Management	3
MGT 3315 Management of Organizations	3	MKT 3405 Marketing Policy	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ECON 4010 (Fall, online only)	3	ECON 3020 Money and Banking	3
ECON 4075 Time Series Analysis (Fall only)	3	ECON 4000 Portfolio Assessment	1
ECON Major Electives	6	ECON 4060 Game Theory Applications (Spring only)	3
ICAP 4357 Organizational Policy and Strategy	3	ECON 4065 Managerial Economics (Spring only)	3
<b>Semester Total</b>	<b>15</b>	ECON 4080 Econometrics I (Spring only)	3
		ECON Major Elective	3
		<b>Semester Total</b>	<b>16</b>

**Economics Major, B.S. Degree - Area 1 Applied Economics - 121 Hours**

- \*AE 1400 or BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success; however, this major does not require any free choice electives.
- Some ECON classes are offered fall or spring semester only, or are only taught online – check with the department for course offerings.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Economics, Finance, and Marketing

# ECONOMICS

## BACHELOR OF SCIENCE DEGREE - AREA 2 INTERNATIONAL BUSINESS

At its roots, the study of economics provides a foundation for understanding the motivation of individuals and firms as well as the forces that cause growth in living standards, recessions, and inflation. Whether your interests focus on personal issues, such as understanding the incentives that induce human behaviors, or examining issues of critical social importance, economics is a stimulating, broad-based field with wide-ranging employment opportunities.

The Bachelor of Science in Economics (Area 2 International Business) provides students with the knowledge and skills to compete in the global economy. This degree provides a strong background in economic theory which is enhanced with courses in accounting, computer information systems, management, and marketing. Further, international business graduates will have a strong background in a foreign language and the experience of international study. With companies competing with firms throughout the world, international business graduates are in high demand.

### About the Faculty

Economics classes at UCM are taught by dynamic, experienced and nationally recognized faculty members who provide personalized attention for each student. These faculty members bring diverse training and work experiences to the classroom and are actively engaged in economic research. This research, which ranges from environmental aid to valuation of

sports teams to investigations of statistical methodologies, along with extensive involvement in professional organizations, places the faculty at the forefront of their respective fields.

### Student Involvement

Students pursuing an economics degree have access to a variety of campus organizations and events. The Department of Economics, Finance, and Marketing sponsors the Economics Club, which promotes social interaction between students and faculty.

In addition to on-campus activities, students are encouraged to complete an internship in economics in order to gain greater practical skills and insight during the completion of the undergraduate degree.

### Special Facilities

The department's offices are housed in the Dockery Building. Classrooms, however, are located in the state-of-the-art Ward Edwards Building, which includes a large computer lab, group computer rooms, group and individual study rooms, student organization offices, and common areas for students. Classrooms are equipped with up-to-date computer hardware and software. In addition to the standard classrooms, the department maintains a statistics classroom in which each student workstation is equipped with a notebook computer, allowing for hands-on learning of the procedures available in statistical software packages.

### Placement

Training in economics will give you practical skills and many career choices. An economics degree or background is ideal for students planning for careers in the following areas: research analysts for private corporations such as banks, financial service institutions, and insurance companies; consultants for management, data processing, and health care firms; and analysts for government agencies at the federal, state, and local levels.

UCM's Office of Career Services assists students in finding employment throughout the academic year. Recent graduates have landed a variety of positions in diverse settings including: Ph.D. programs and law schools, the Central Intelligence Agency, managerial consultants; financial brokers; and analysts for the state of Missouri.

### To Learn More

For more information, write to the Department of Economics, Finance, and Marketing, UCM, Warrensburg, MO 64093 or call 660-543-4246. The department's web address is [www.ucmo.edu/econ](http://www.ucmo.edu/econ).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Economics Major, B.S. Degree - Area 2 International Business (43-537)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management	3	COMM 1000 Public Speaking	3
ECON 1010 Principles of Macroeconomics	3	ECON 1011 Principles of Microeconomics	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1111 College Algebra	3	POLS 1510 American Government	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 or BADM 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting	3	ACCT 2102 Principles of Managerial Accounting	3
General Education	12	BLAW 2720 Legal Environment of Business	3
<b>Semester Total</b>	<b>15</b>	FIN 2801 Business Statistics I	3
		General Education	4
		Majors Elective (Choose from list in Catalog)	3
		<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ECON 3010 Intermediate Macroeconomics (Fall only)	3	CIS 3630 Management Information Systems	3
FIN 3801 Business Statistics II	3	MGT 3325 Business Communications	3
FIN 3850 Principles of Finance	3	MGT 3360 Production/Operations Management	3
MGT 3315 Management of Organizations	3	MKT 3405 Marketing Policy	3
Modern Foreign Language**	3	Modern Foreign Language**	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ECON 4010 (Fall, online only)	3	FIN 4820 International Finance	3
MGT 3345 International Management	1	ICAP 4357 Organizational Policy and Strategy	3
MKT 4460 International Marketing	3	International Experience	6
Modern Foreign Language**	3	Modern Foreign Language**	3
Major Electives (Choose from list in Catalog)	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Economics Major, B.S. Degree - Area 2 International Business - 121 Hours**

- \*AE 1400 or BADM 1400 (1 hr.) are highly recommended for academic success. AE 1400 or BADM 1400 are a free choice elective.
- \*\* Twelve hours of the same modern foreign language are required for this program. Based on placement policy, students who begin in levels 2, 3, or 4 of a language will earn credit for the lower levels, thus students may not actually enroll in four semester of language.
- Some ECON classes are offered fall or spring semester only, or are only taught online – check with the department for course offerings.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# ELECTRONICS TECHNOLOGY

BACHELOR OF SCIENCE DEGREE, AREA 1: ELECTRICAL/ELECTRONIC COMMUNICATION TECHNOLOGY

University of Central Missouri's Bachelor of Science in Electronics Technology degree programs prepares students to fit into a wide variety of electronics-related positions. This program has a strong management component which allows graduates to move into management and supervisory positions within the industry.

Students in Electronics Technology have several specialty areas in which to choose from. These include the electrical technology, electronic communication technology, computer/networking specialties.

### Career Opportunities

Graduates have been placed in job classifications such as engineering assistants, service representatives, sales representatives,

system troubleshooters, computer maintenance support, network supervisors, production supervisors, and audio-visual engineers.

### Professional Accreditation

Central Missouri's baccalaureate programs in automotive, construction, industrial technology, and electronics are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### Student Involvement

A student group of the Association of Technology, Management, and Applied Engineering (ATMAE) now exists on campus. It is open to all School of Technology students and is housed in the electronics area.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, email the school chair, John Sutton, at [jsutton@ucmo.edu](mailto:jsutton@ucmo.edu), or call 1-660-543-4439. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology) and its fax number is 1-660-543-4578.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Electronics Technology Major (Area 1 Electrical/Electronic Comm. Tech.), B.S. Degree (43-01221)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
ET 1026 DC Circuit Analysis*	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
MATH 1111 College Algebra	3	TECH 1042 Technical Mathematics II	3
General Education	2	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>16</b>		
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry	4	COMM 1000 Public Speaking	3
ET 2060 Microprocessors: Theory & Applications*	4	ET 2065 Computer Prog. for Electronic Technology*	4
ET 3020 Circuit Analysis & Implementation*	4	PHYS 1104 Introduction to the Sciences: Physics	4
TECH 2040 Calculus for Technology	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 3060 Technical Writing	3	ET 3014 Analog-Digital Circuitry*	4
ET 3017 Industrial Electronics*	4	IGEN 3116 Creative Problem Solving or	
ET 3041 Communication Systems*	4	ICAP 4110 Engineering Technology Problem Solving	3
MGT 3315 Management of Organizations or		Departmentally Approved Area 1 Electives***	3
INDM 4210 Industrial Management	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
Departmentally Approved Area 1 Elective***	3	Departmentally Approved Area 1 Elective***	5
Management Elective#	3	General Education	6
General Education	9	Free Choice Electives	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</b>

**Electronics Technology Major (Area 1 Electrical/Electronic Communication Technology)  
B.S. Degree - 120 hours**

- \*This class is only offered during the semester indicated.
- \*\* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*See department chairperson for appropriate choices for the Departmentally Approved Area 1 Electives. Eleven hours are required, two hours must be at the upper-level (3000/4000).
- #See department chairperson for appropriate choices for the Management Elective.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

School of Technology

# ELECTRONICS TECHNOLOGY

BACHELOR OF SCIENCE DEGREE, AREA 2: COMPUTER/NETWORKING ELECTRONICS TECHNOLOGY

University of Central Missouri's Bachelor of Science in Electronics Technology degree programs prepare students to fit into a wide variety of electronics-related positions. This program has a strong management component which allows graduates to move into management and supervisory positions within the industry.

Students in Electronics Technology have several specialty areas in which to choose from. These include the electrical technology, electronic communication technology, computer/networking specialties.

### Career Opportunities

Graduates have been placed in job classifications such as engineering assistants, service representatives, sales representatives,

system troubleshooters, computer maintenance support, network supervisors, production supervisors, and audio-visual engineers.

### Professional Accreditation

Central Missouri's baccalaureate programs in automotive, construction, industrial technology, and electronics are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### Student Involvement

A student group of the Association of Technology, Management, and Applied Engineering (ATMAE) now exists on campus. It is open to all School of Technology students and is housed in the electronics area.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, email the school chair, John Sutton, at [jsutton@ucmo.edu](mailto:jsutton@ucmo.edu), or call 1-660-543-4439. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology) and its fax number is 1-660-543-4578.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Electronics Technology Major (Area 2 Computer/Networking Elec. Tech.) B.S. Degree (43-02221)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
ET 1026 DC Circuit Analysis*	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
MATH 1111 College Algebra	3	NET 2058 Computer Technologies*	3
<b>Semester Total</b>	<b>14</b>	General Education	2-3
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>16-17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry	4	COMM 1000 Public Speaking	3
ET 2060 Microprocessors: Theory & Applications*	4	ET 2065 Computer Prog. For Electronics Tech.*	4
NET 1060 Introduction to Networking Basics*	3	NET 2060 Switching Basics and Inter. Routing*	3
NET 1061 Routers & Routing Basics*	3	NET 2061 WAN Technologies*	3
<b>Semester Total</b>	<b>14</b>	PHYS 1104 Introduction to the Sciences: Physics	4
		<b>Semester Total</b>	<b>17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 3060 Technical Writing	3	IGEN 3116 or ICAP 4110	3
NET 4060 Advanced Network Routing*	3	NET 4061 Remote Access*	3
Area 2 Major Elective***	3	Area 2 Major Elective***	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
NET 4062 Advanced Switching*	3	NET 4063 Networking Support*	3
Area 2 Major Elective***	3	Departmentally Approved Elective#	3
General Education	6	General Education	6
Free Choice Elective	2	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>14</b>		

**Electronics Technology Major (Area 2 Computer/Networking Electronics Technology) B.S. Degree - 120 hours**

- \*This class is only offered during the semester indicated.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*For the Major Electives choose either set of three courses: NET 4040, 4042, and 4043 OR NET 3000, 3062, or 4064.
- #See department chairperson for appropriate choices for the Departmentally Approved Elective. Three hours are required.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Elementary and Early Childhood Education

# ELEMENTARY EDUCATION

EARLY CHILDHOOD, BIRTH-GRADE 3 OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

Candidates pursuing a bachelor's degree with a major in education may select the grades one through six option, which leads to certification to teach elementary education in grades one through six, or they may choose an early childhood, birth through grade three option, which leads to certification to teach early childhood education and elementary in pre-kindergarten through grade three.

Early childhood education majors study a core of education and liberal arts classes. Combined with a professional education semester that includes 14 weeks of student teaching, this curriculum prepares candidates to be highly qualified pre-school or primary elementary school classroom teachers upon graduation.

According to the Missouri Department of Elementary and Secondary Education, UCM is "one of the premier teacher education institutions in the state," and has a reputation for preparing some of the finest teachers in the classroom today. Full accreditation by the National Council for Accreditation of Teacher Education (NCATE) and the Missouri Department of Elementary and Secondary Education (DESE) provides further verification of high quality. UCM's programs meet all Missouri certification requirements.

Central Missouri's teacher education program prepares teachers to be competent, caring, reflective practitioners committed to the premise that all can learn. Graduates are well grounded in general, major, and professional knowledge and skills that are guided by performance standards and assessments, including development of reflective decision-making skills. Program expectations

have been derived from consultation with practitioners and review of recommendations of appropriate professional groups.

### Clinical Experiences

Pre-service teachers complete a series of field experiences in the sophomore, junior, and senior years. In the senior year, they participate in a professional development school experience that is co-designed and taught by school practitioners and university faculty. The culminating experience is the student-teaching semester.

### International Opportunities

Students in the Department of Elementary and Early Childhood Education may choose to participate in several international study experiences. The London/Wales School Study Tour or a semester in Sweden gives students an excellent introduction to education in those countries. Students may also participate in the full range of international study opportunities offered by the Office of International Programs.

### About the Faculty

Department faculty members all have public school or early childhood teaching experience and are qualified teachers who engage regularly in a number of special programs, conduct in-service workshops in the schools, and present papers at international, national and state conferences. A majority of the faculty members have international experience.

### Student Involvement

Membership in the Student Missouri State Teachers Association and Missouri National Educators Association are

available to all education students. Specialized organizations, such as the Association of Childhood Education International, provides aspiring teachers with practical career and professional information. UCM also has a chapter of Kappa Delta Pi, a national honorary fraternity. In addition, Leading Educator Advocates for Diversity focuses on attracting diverse students to the teaching profession and the university.

### Teacher Education Admission

Candidates seeking an initial teaching certificate who meet departmental requirements are admitted to the teacher education program when they have completed 48 semester hours of college credit. After completing 90 hours and meeting additional requirements, students are admitted to the professional education semester and the student-teaching portion of the program.

UCM's graduated-entry program is designed to develop each student's performance level by periodically placing him or her in classrooms. For example, early childhood education candidates have developmental field experiences during each academic year. Starting at the sophomore level, the program culminates with a semester of student teaching.

### To Learn More

For more information, write to the Department of Elementary and Early Childhood Education, UCM, Lovinger 3300, Warrensburg, MO 64093; call 660-543-4235; or visit [www.ucmo.edu/ecel](http://www.ucmo.edu/ecel).

**Elementary Education Major (Birth - Grade 3), B.S. in Ed. Degree (41-286)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1800 Ideas & the Vis. Arts or MUS 1210 Exp. Music	3	<b><i>ENGL 1030 Composition II</i></b>	3
COMM 1000 Public Speaking	3	HIST 1350 or 1351 History of the United States	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>MATH 1620 Contemporary Math</i></b>	3
<b><i>POLS 1510 American Government</i></b>	3	<b><i>General Education Science</i></b>	4
Modern Language	3	General Education Technology	2-3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CFD 1220 Child Development	3	CD 2000 Bases of Speech & Language	2
ECEL 2310 Computer/Technology in Education	2	ECEL 1310 or 1320 Science for Teachers	3
EDFL 2100 Foundations of Education	2	ECEL 2830 Early Childhood Principles	3
FLDX 2150 Introductory Field Experience	1	EDFL 3210 Methods of Reading Instruction	3
EDFL 2240 Educational Psychology	3	EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Children	2
MATH 1800 Introduction to Elementary & M.S. Math	2	PE 2410 Movement Skills & Activities for Primary Grades	2
MATH 2801 Conc. & Meth. in Elementary School Math	3	General Education Literature	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>18</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
D&N 2310 Early Childhood Nutrition & Health	2	ART 3910 Art for Elementary Schools	2
ECEL 2110 World Diversity & America	3	ECEL 3420 Teaching Social Studies & Economics	3
ECEL 3260 Practicum in Child Development	1	EDSP 3150 Community & Family Resources	2
ECEL 3850 Development & Learning Through Play	3	EDSP 3151 Community & Family Resources Practicum	1
ECEL 3220 The Teaching of Language Arts	3	EDSP 4370 Screening, Diagnosing, & Prescr. Instructions	3
EDFL 3410 Children's Literature	2	HED 3310 Methods in Elementary School Health	2
GEOG 2212 World Geography	3	MUS 3301 Music for Elementary Schools	2
<b>Semester Total</b>	<b>17</b>	PSY 2220 Child Psych. or PSY 3220 Lifespan Development	3
		<b>Semester Total</b>	<b>18</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs.</b>
CFD 3250 Org. & Admin. of Programs for Young Children	3	ECEL 4150 Student Teaching Professional Seminar	2
ECEL 4350 Elementary Science Teaching Strategies	3	FLDX 4493 Student Teaching Early Childhood	6
ECEL 4400 Classroom Management & Interactions*	3	FLDX 4496 Student Teaching Elementary II	4
ECEL 4830 Early Childhood Curriculum	3	<b>Semester Total</b>	<b>12</b>
HED 4330 First Aid and CPR for Educators	1		
IGEN 3468 Community, School, & Family Connections	3		
<b>Semester Total</b>	<b>16</b>		

**Elementary Education Major (Birth - Grade 3), B.S. in Ed. Degree - 127 hours**

- \*A grade of C or higher is required in ECEL 4400 for departmental recommendation for student teaching.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Education

Department of Elementary and Early Childhood Education

# ELEMENTARY EDUCATION

GRADES 1-6 OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

Candidates pursuing a bachelor's degree with a major in elementary education may select the grades one through six option, which leads to certification to teach elementary education in grades one through six, or they may choose an early childhood, birth through grade three option, which leads to certification to teach early childhood education and elementary in pre-kindergarten through grade three.

Elementary education majors study a core of education and liberal arts classes. Combined with a professional education semester that includes 14 weeks of student teaching, this curriculum prepares candidates to be highly qualified elementary school classroom teachers upon graduation.

According to the Missouri Department of Elementary and Secondary Education, UCM is "one of the premier teacher education institutions in the state," and has a reputation for preparing some of the finest teachers in the classroom today. Full accreditation by the National Council for Accreditation of Teacher Education (NCATE) and the Missouri Department of Elementary and Secondary Education (DESE) provides further verification of high quality. UCM's programs meet all Missouri certification requirements.

Central Missouri's teacher education program prepares teachers to be competent, caring, reflective practitioners committed to the premise that all can learn. Graduates are well grounded in general, major, and professional knowledge and skills that are guided by performance standards and assessments, including development of reflective decision-making skills. Program expectations have been derived from consultation

with practitioners and review of recommendations of appropriate professional groups.

### Clinical Experiences

Pre-service teachers complete a series of field experiences in the sophomore, junior, and senior years. In the senior year, they participate in a professional development school experience that is co-designed and taught by school practitioners and university faculty. The culminating experience is the student-teaching semester.

### International Opportunities

Students in the Department of Elementary and Early Childhood Education may choose to participate in several international study experiences. The London/Wales School Study Tour or a semester in Sweden gives students an excellent introduction to education in those countries. Students may also participate in the full range of international study opportunities offered by the Office of International Programs.

### About the Faculty

Department elementary education faculty members all have public school teaching experience and are qualified teachers who engage regularly in a number of special programs, conduct in-service workshops in the schools, and present papers at international, national and state conferences. A majority of the faculty members have international experience.

### Student Involvement

Membership in the Student Missouri State Teachers Association is available to all education students. Specialized organizations, the Student Reading

Council of the International Reading Association and the Association for Childhood Education International, provide aspiring teachers with practical career and professional information. UCM also has a chapter of Kappa Delta Pi, a national honorary fraternity. In addition, Leading Educator Advocates for Diversity and the Latino Student Union focus on attracting diverse students to the teaching profession and the university.

### Teacher Education Admission

Candidates seeking an initial teaching certificate who meet departmental requirements are admitted to the teacher education program when they have completed 48 semester hours of college credit. After completing 90 hours and meeting additional requirements, students are admitted to the professional education semester and the student-teaching portion of the program.

UCM's graduated-entry program is designed to develop each student's performance level by periodically placing him or her in school classrooms. For example, elementary education candidates have developmental field experiences during each academic year. Starting at the sophomore level, the program culminates with a semester of student teaching.

### To Learn More

For more information, write to the Department of Elementary and Early Childhood Education, UCM, Lovinger 3300, Warrensburg, MO 64093; call 660-543-4235; or visit [www.ucmo.edu/ece1](http://www.ucmo.edu/ece1).

**Elementary Education Major (Grades 1 - 6), B.S. in Ed. Degree (41-285)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
ART 1800 Ideas & the Vis. Arts or MUS 1210 Exp. Music		3	<b><i>ENGL 1030 Composition II</i></b>		3
COMM 1000 Public Speaking		3	HIST 1350 or 1351 History of the United States		3
<b><i>ENGL 1020 Composition I</i></b>		3	<b><i>MATH 1620 Contemporary Math</i></b>		3
<b><i>POLS 1510 American Government</i></b>		3	<b><i>General Education Science w/lab</i></b>		4
Modern Language		3	General Education Technology		2-3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
ECEL 2310 Computer/Technology in Education		2	ECEL 1310 or 1320 Science for Teachers		3
EDFL 2240 Educational Psychology		3	EDFL 3210 Methods of Reading Instruction		3
EDFL 2100 Foundations of Education		2	EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Children		2
FLDX 2150 Introductory Field Experience		1	GEOG 2212 World Geography		3
MATH 1800 Intro. to Teaching Elementary & M.S. Math		2	Teaching area of concentration**		3
MATH 2801 Concepts & Methods in Elem. Sch. Math*		3	General Education Literature		3
PE 3420 Elementary School PE Activities		2	<b>Semester Total</b>		<b>17</b>
Teaching area of concentration**		3			
<b>Semester Total</b>		<b>18</b>			

<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
ECEL 2110 World Diversity & America		3	ART 3910 Art for Elementary School		2
ECEL 3220 The Teaching of Language Arts		3	ECEL 3420 Teaching Social Studies & Economics		3
EDFL 3410 Children's Literature		2	HED 3310 Methods in Elementary School Health		2
EDFL 3215 Reading in the Content Fields		3	MUS 3301 Music for Elementary School		2
Teaching area of concentration**		6	PSY 2220 Child Psychology or PSY 3220 Lifespan Devel.		3
<b>Semester Total</b>		<b>17</b>	Teaching area of concentration**		6
			<b>Semester Total</b>		<b>18</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester+</b>		<b>Hrs.</b>
ECEL 4350 Elementary Science Teaching Strategies		3	ECEL 4150 Student Teaching Professional Seminar		2
ECEL 4400 Classroom Management & Interactions***		3	FLDX 4495 Student Teaching Elementary I		6
EDFL 4220 Analysis & Correction of Reading Disabilities		2	FLDX 4496 Student Teaching Elementary II		4
EDFL 4250 Practicum in Reading		1	<b>Semester Total</b>		<b>12</b>
HED 4330 First Aid & CPR for Educators		1			
IGEN 3468 Community, School, and Family Connections		3			
Teaching area of concentration**		3			
<b>Semester Total</b>		<b>16</b>			

**Elementary Education Major (Grades 1 - 6), B.S. in Ed. Degree - 128 hours**

- \*Students selecting a math minor will enroll in MATH 2802 instead of 2801 and must contact the math faculty advisor or academic advisor before enrolling.
- \*\*A teaching area of concentration is a content area for which UCM sponsors certification. For elementary education majors, these are: Art, English, Family and Consumer Sciences, Health Education, Instructional Technology, Mathematics, Modern Languages, Science, Social Studies, Special Education, and Speech Communication/Theatre. These range in hours from 21 to 28. The above plan is based on a 21 credit hour area of concentration.
- \*\*\*A grade of C or higher is required in ECEL 4400 for departmental recommendation for student teaching.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Health, Science, and Technology

School of Technology

# ENGINEERING TECHNOLOGY

## BACHELOR OF SCIENCE DEGREE, OPTION 1: ELECTRONICS ENGINEERING TECHNOLOGY

University of Central Missouri's Engineering Technology degree allows students to specialize in one of the following option areas: electronics engineering technology, mechanical engineering technology, industrial engineering technology, and manufacturing engineering technology.

Engineering technologists use the principles and theories of science, engineering, and mathematics to solve technical problems in design, sales, construction, electronics, research and development, and/or manufacturing. Their work is more practically oriented than that of engineers and emphasizes solving industrial problems using engineering theories.

Engineering technologists work in quality control, inspecting products and processes, conducting tests, or collecting data. In industry, they may assist in product design, development or production.

Engineering technologists who work in research and development build or set up equipment, prepare and conduct experiments, collect data, calculate or record results, and help engineers or scientists

in other ways, such as making prototype versions of newly designed equipment. They also assist in design work, often using computer-aided design (CAD) equipment.

Most engineering technologists specialize in certain areas of industry, learning skills, and working in the same disciplines as engineers. Graduates of this program will be proficient in materials, processes, current technologies, applied calculus, applied science, communications, and an area of technical specialization as identified in the program of study.

### Career Opportunities

Graduates in the engineering technology program work in a variety of fields. They may work in research and development, quality control, product design, production, data collection, testing, electronics manufacturing, networking, broadcasting, and/or computer software/hardware systems, etc.

The flexibility of UCM's engineering technology degree program allows students to specialize in the option area of their choice. Career opportunities are excellent.

### Student Involvement

Several student organizations relate to this degree program. The student chapter of the American Design Drafting Association and the American Institute of Building Design relates to the Mechanical option. The society of Manufacturing Engineers (SME) chapter relates to the industrial engineering option. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), and its fax number is 1-660-543-4578.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Engineering Technology, Option 1 (Electronics Engineering Technology) B.S. Degree (43-01282)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CADD 1105 Basic AutoCAD	1	ENGL 1030 Composition II	3
CTE 1300 Introduction to Engineering Design (3) or CADD 1110 Fundamentals of Drafting (2)	2-3	ENGT 1000 Principles of Engineering	3
ENGL 1020 Composition I	3	ET 1027 AC Circuit Analysis*	4
ENGT 1500 Orientation to Engineering Technology*	1	MATH 1131 Applied Calculus	3
ET 1026 DC Circuit Analysis*	4	<b>Semester Total</b>	<b>13</b>
MATH 1112 College Trigonometry**	2		
<b>Semester Total</b>	<b>13-14</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	CHEM 1103 Introduction to the Sciences: Chemistry	3
ENGT 1012 Global Production Technology	2	ENGT 1501 Seminar in Engineering Technology	.5
ENGT 1501 Seminar in Engineering Technology	.5	ET 2048 Active Electronic Devices*	4
ET 1050 Digital Principles & Applications*	4	ET 2065 Computer Programming for Electronics Technology*	4
PHYS 1104 Introduction to the Sciences: Physics	4	General Education	3
General Education	3	<b>Semester Total</b>	<b>14.5</b>
<b>Semester Total</b>	<b>16.5</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 3060 Technical Writing	3	ENGT 1501 Seminar in Engineering Technology	.5
ENGT 1501 Seminar in Engineering Technology	.5	ENGT 3520 Engineering Economy	3
ET 2060 Microprocessors: Theory & Applications*	4	ENGT 4580 Quality Systems	3
ET 3017 Industrial Electronics*	4	ET 3014 Analog-Digital Circuitry*	4
General Education	3	General Education	6
<b>Semester Total</b>	<b>14.5</b>	<b>Semester Total</b>	<b>16.5</b>
<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
COMM 3010 Interpersonal Communication	3	EET 3048 Control of Electrical Machinery*	4
ET 3020 Circuit Analysis & Implementation*	4	ICAP 4110 Engineering Technology Problem Solving	3
ET 3041 Communication Systems*	4	INDM 4260 Organizational Dynamics	3
INDM 4250 Project Management	3	Departmentally Approved Upper Level Electives	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>16</b>

**Engineering Technology, Option 1 (Electronics Engineering Technology) B.S. Degree - 124-125 hours**

- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

School of Technology

# ENGINEERING TECHNOLOGY

## BACHELOR OF SCIENCE DEGREE, OPTION 2: MECHANICAL ENGINEERING TECHNOLOGY PRODUCT DESIGN

University of Central Missouri's Engineering Technology degree allows students to specialize in one of the following option areas: electronics engineering technology, mechanical engineering technology, industrial engineering technology, and manufacturing engineering technology.

Engineering technologists use the principles and theories of science, engineering, and mathematics to solve technical problems in design, sales, construction, electronics, research and development, and/or manufacturing. Their work is more practically oriented than that of engineers and emphasizes solving industrial problems using engineering theories.

Engineering technologists work in quality control, inspecting products and processes, conducting tests, or collecting data. In industry, they may assist in product design, development or production.

Engineering technologists who work in research and development build or set up equipment, prepare and conduct experiments, collect data, calculate or record results, and help engineers or scientists

in other ways, such as making prototype versions of newly designed equipment. They also assist in design work, often using computer-aided design (CAD) equipment.

Most engineering technologists specialize in certain areas of industry, learning skills, and working in the same disciplines as engineers. Graduates of this program will be proficient in materials, processes, current technologies, applied calculus, applied science, communications, and an area of technical specialization as identified in the program of study.

### Career Opportunities

Graduates in the engineering technology program work in a variety of fields. They may work in research and development, quality control, product design, production, data collection, testing, electronics manufacturing, networking, broadcasting, and/or computer software/hardware systems, etc.

The flexibility of UCM's Engineering Technology degree program allows students to specialize in the option area of their choice. Career opportunities are excellent.

### Student Involvement

Several student organizations relate to this degree program. The student chapter of the American Design Drafting Association and the American Institute of Building Design relates to the mechanical option. The Society of Manufacturing Engineers (SME) chapter relates to the industrial engineering option. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), and its fax number is 1-660-543-4578.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Engineering Technology, Option 2 (Mech. Eng. Tech. - Product Design) B.S. Degree (43-02282)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CADD 1105 Basic AutoCAD	1	CADD 1120 Machine Drafting*	3
CTE 1300 Introduction to Engineering Design (3) or CADD 1110 Fundamentals of Drafting (2)	2-3	CADD 2170 Introduction to Computer-Aided Drafting	2
ENGT 1000 Principles of Engineering	3	ENGL 1020 Composition I	3
ENGT 1500 Orientation to Engineering Technology*	1	ET 1010 Applied Electricity*	4
ENGT 1510 Introduction to Manufacturing Processes*	3	MATH 1131 Applied Calculus	3
MATH 1112 College Trigonometry**	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>12-13</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CMGT 2020 Statics	3	CHEM 1103 Introduction to the Sciences: Chemistry	3
ENGL 1030 Composition II	3	CMGT 3020 Applied Strength of Materials	3
ENGT 1012 Global Production Technology	2	ECON 1010 Principles of Macroeconomics	3
ENGT 1501 Seminar in Engineering Technology	.5	ENGT 1501 Seminar in Engineering Technology	.5
ENGT 2040 Engineering Materials Science	4	ENGT 2530 Machine Tool Technology	3
PHYS 1104 Introduction to the Sciences: Physics	4	General Education	3
<b>Semester Total</b>	<b>16.5</b>	<b>Semester Total</b>	<b>15.5</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CADD 3124 Production Design Drafting*	3	CADD 4174 Machine Design*	3
CADD 4170 CAD & Design for Engineering Technology	3	CADD 4124 Geometric Dim. & Tol. for Engineering Tech.*	2
CTE 3060 Technical Writing	3	COMM 3010 Interpersonal Communication	3
ENGT 1501 Seminar in Engineering Technology	.5	ENGT 1501 Seminar in Engineering Technology	.5
ET 1050 Digital Principles & Applications*	4	General Education	6
General Education	3	<b>Semester Total</b>	<b>14.5</b>
<b>Semester Total</b>	<b>16.5</b>		
<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CADD 4175 Advanced 3D Analysis & Rapid Prototyping*	3	ENGT 4580 Quality Systems	3
ENGT 3520 Engineering Economy	3	ICAP 4110 Engineering Technology Problem Solving	3
INDM 4250 Project Management	3	INDM 4260 Organizational Dynamics	3
ATM 4032 Hydraulics & Pneumatics	3	Departmentally Approved Major Elective***	1
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Engineering Technology, Option 2 (Mechanical Eng. Tech. - Product Design) B.S. Degree - 124-125 hours**

- \* This class is only offered during the semester indicated.
- \*\* Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- \*\*\* See departmental advisor for a listing of the approved elective courses within the major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# ENGINEERING TECHNOLOGY

BACHELOR OF SCIENCE DEGREE, OPTION 3 INDUSTRIAL ENGINEERING TECHNOLOGY

University of Central Missouri's Engineering Technology degree allows students to specialize in one of the following option areas: electronics engineering technology, mechanical engineering technology, industrial engineering technology, and manufacturing engineering technology.

Engineering technologists use the principles and theories of science, engineering, and mathematics to solve technical problems in design, sales, construction, electronics, research and development, and/or manufacturing. Their work is more practically oriented than that of engineers and emphasizes solving industrial problems using engineering theories.

Engineering technologists work in quality control, inspecting products and processes, conducting tests, or collecting data. In industry, they may assist in product design, development or production.

Engineering technologists who work in research and development build or set up equipment, prepare and conduct experiments, collect data, calculate or record results, and help engineers or scientists

in other ways, such as making prototype versions of newly designed equipment. They also assist in design work, often using computer-aided design (CAD) equipment.

Most engineering technologists specialize in certain areas of industry, learning skills, and working in the same disciplines as engineers. Graduates of this program will be proficient in materials, processes, current technologies, applied calculus, applied science, communications, and an area of technical specialization as identified in the program of study.

### Career Opportunities

Graduates in the engineering technology program work in a variety of fields. They may work in research and development, quality control, product design, production, data collection, testing, electronics manufacturing, networking, broadcasting, and/or computer software/hardware systems, etc.

The flexibility of UCM's engineering technology degree program allows students to specialize in the option area of their choice. Career opportunities are excellent.

### Student Involvement

Several student organizations relate to this degree program. The student chapter of the American Design Drafting Association and the American Institute of Building Design relates to the Mechanical option. The society of Manufacturing Engineers (SME) chapter relates to the industrial engineering option. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), and its fax number is 1-660-543-4578.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree (43-03282)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CADD 1105 Basic AutoCAD	1	ENGL 1030 Composition II	3
CTE 1300 Introduction To Engineering Design (3) or CADD 1110 Fundamentals of Drafting (2)	2-3	ENGT 2040 Engineering Materials Science	4
ENGL 1020 Composition I	3	ET 1010 Applied Electricity*	4
ENGT 1000 Principles of Engineering	3	MATH 1131 Applied Calculus	3
ENGT 1500 Orientation to Engineering Technology*	1	<b>Semester Total</b>	<b>14</b>
MATH 1112 College Trigonometry**	2		
<b>Semester Total</b>	<b>12-13</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ENGT 1012 Global Production Technology	2	CHEM 1103 Introduction to the Sciences: Chemistry	3
ENGT 1501 Seminar in Engineering Technology	.5	ECON 1010 Principles of Macroeconomics	3
ENGT 2530 Machine Tool Technology	3	ENGT 1501 Seminar in Engineering Technology	.5
ENGT 3510 Engineering Planning & Control*	3	ENGT 3530 Inspection & Quality Control*	3
PHYS 1104 Introduction to the Sciences: Physics	4	ENGT 3562 Computer Numerical Control*	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>15.5</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 3060 Technical Writing	3	COMM 3010 Interpersonal Communication	3
ENGT 1501 Seminar in Engineering Technology	.5	ENGT 1501 Seminar in Engineering Technology	.5
ET 1050 Digital Principles & Applications*	4	ENGT 3520 Engineering Economy	3
INDM 4240 Facilities Engineering*	3	INDM 4220 Human Factors Engineering*	3
INDM 4280 Industrial Statistics or SAFE 4940 Statistical Analysis for Risk Management	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15.5</b>
<b>Semester Total</b>	<b>16.5</b>		
<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ATM 4032 Hydraulics & Pneumatics	3	ENGT 4580 Quality Systems	3
ENGT 4520 Robotics & Automation*	3	ICAP 4110 Engineering Technology Problem Solving*	3
ENGT 4550 Simulation in Engineering Technology*	3	INDM 4260 Organizational Dynamics	3
ENGT 4590 Computer Integrated Manufacturing*	3	Major option elective***	2
INDM 4250 Project Management	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>

**Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree – 124-125 hours**

- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- \*\*\*See departmental advisor for a listing of the approved elective courses within the major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# ENGINEERING TECHNOLOGY

## BACHELOR OF SCIENCE DEGREE, OPTION 4: MANUFACTURING ENGINEERING TECHNOLOGY

University of Central Missouri's Engineering Technology degree allows students to specialize in one of the following option areas: electronics engineering technology, mechanical engineering technology, industrial engineering technology, and manufacturing engineering technology.

Engineering technologists use the principles and theories of science, engineering, and mathematics to solve technical problems in design, sales, construction, electronics, research and development, and/or manufacturing. Their work is more practically oriented than that of engineers and emphasizes solving industrial problems using engineering theories.

Engineering technologists work in quality control, inspecting products and processes, conducting tests, or collecting data. In industry, they may assist in product design, development or production.

Engineering technologists who work in research and development build or set up equipment, prepare and conduct experiments, collect data, calculate or record results, and help engineers or scientists

in other ways, such as making prototype versions of newly designed equipment. They also assist in design work, often using computer-aided design (CAD) equipment.

Most engineering technologists specialize in certain areas of industry, learning skills, and working in the same disciplines as engineers. Graduates of this program will be proficient in materials, processes, current technologies, applied calculus, applied science, communications, and an area of technical specialization as identified in the program of study.

### Career Opportunities

Graduates in the engineering technology program work in a variety of fields. They may work in research and development, quality control, product design, production, data collection, testing, electronics manufacturing, networking, broadcasting, and/or computer software/hardware systems, etc.

The flexibility of UCM's Engineering Technology degree program allows students to specialize in the option area of their choice. Career opportunities are excellent.

### Student Involvement

Several student organizations relate to this degree program. The student chapter of the American Design Drafting Association and the American Institute of Building Design relates to the mechanical option. The Society of Manufacturing Engineers (SME) chapter relates to the industrial engineering option. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), and its fax number is 1-660-543-4578.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Engineering Technology, Option 4 (Manufacturing Engineering Tech.) B.S. Degree (43-04282)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CADD 1105 Basic AutoCAD	1	ENGL 1030 Composition II	3
CTE 1300 Introduction to Engineering Design (3) or CADD 1110 Fundamentals of Drafting (2)	2-3	ENGT 1000 Principles of Engineering	3
ENGL 1020 Composition I	3	CADD 1120 Machine Drafting*	3
ENGT 1500 Orientation to Engineering Technology*	1	CADD 2170 Introduction to Computer-Aided Drafting	2
ENGT 1510 Introduction to Manufacturing Processes	3	MATH 1131 Applied Calculus	3
MATH 1112 College Trigonometry**	2	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>12-13</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ENGT 1012 Global Production Technology	2	CHEM 1103 Introduction to the Sciences: Chemistry	3
ENGT 1501 Seminar in Engineering Technology	.5	ECON 1010 Principles of Macroeconomics	3
ENGT 2040 Engineering Material Sciences	4	ENGT 1501 Seminar in Engineering Technology	.5
ET 1010 Applied Electricity*	4	ENGT 2515 Applied Manufacturing Processes*	3
PHYS 1104 Introduction to the Sciences: Physics	4	ENGT 2530 Machine Tool Technology	3
<b>Semester Total</b>	<b>14.5</b>	General Education	3
		<b>Semester Total</b>	<b>15.5</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 3060 Technical Writing	3	COMM 3010 Interpersonal Communication	3
ENGT 1501 Seminar in Engineering Technology	.5	ENGT 1501 Seminar in Engineering Technology	.5
ET 1050 Digital Principles & Applications*	4	ENGT 3530 Inspection & Quality Control*	3
CADD 4170 CAD & Design for Engineering Technology	3	ENGT 3562 Computer Numerical Control*	3
General Education	6	CADD 4124 Geometric Dim. & Tol. for Eng. Technology*	2
<b>Semester Total</b>	<b>16.5</b>	General Education	3
		<b>Semester Total</b>	<b>14.5</b>
<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ENGT 3520 Engineering Economy	3	ENGT 4580 Quality Systems	3
ENGT 4520 Robotics & Automation*	3	ICAP 4110 Engineering Technology Problem Solving	3
ENGT 4590 Computer Integrated Manufacturing*	3	INDM 4260 Organizational Dynamics	3
INDM 4250 Project Management	3	Departmentally Approved Major Elective***	1
ATM 4032 Hydraulics & Pneumatics	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>18</b>		

**Engineering Technology, Option 4 (Manufacturing Engineering Technology) B.S. Degree - 124-125 hours**

- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- \*\*\*See department advisor for a listing of approved elective courses within the major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of English and Philosophy

# ENGLISH

## BACHELOR OF ARTS DEGREE

The two degree options for English majors are housed in the Department of English and Philosophy, a large department with a diverse faculty dedicated to teaching a wide variety of courses in literature, writing, linguistics, and critical thought. A number of students from across the university maintain their interest in reading, writing, and critical thinking by choosing to minor in English, creative writing, or philosophy. These minors complement almost any other major.

### Bachelor of Arts in English

With flexibility and creativity, an English major can use this versatile degree to land a job in business, government, or the non-profit sector. Employers need employees with the analytical skills and writing abilities students develop by majoring in English. This degree also provides a good foundation for further study at the graduate and professional levels. Law, library science, and teaching English as a second language are among the fields that have attracted our graduates. Of course, some BA in English graduates pursue graduate studies in literature to teach English at the post-secondary level.

The BA in English degree program consists of courses in Shakespeare, History of the English Language, and literature (American, British and world). Students have considerable flexibility in choosing which courses will fulfill the BA in English requirements.

### Bachelor of Science in English Education

Central Missouri's BSE in English program is accredited by the National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education. This degree leads to certification for teaching high school English in Missouri. Certification may be transferable to other states, depending on their requirements.

An attractive feature of the BSE degree is the program's excellent placement record; nearly all of our students who have sought a teaching job in Missouri have found one. Graduates find their work with high school students challenging and rewarding. Like the BA, the BSE also provides a good foundation for graduate work in English and other fields.

The courses required for the BSE degree include courses in American, British, and World Literature; Composition and Evaluation, Advanced Rhetoric, English Grammar, History of the English Language, Literature for Adolescents, and a block of professional education courses. During the last semester of undergraduate study, students perform supervised student teaching in a Missouri high school.

### Student Activities

Students in both degree programs are eligible to apply for membership in Sigma Tau Delta, the English Honor Society. Affiliated with the national organization, the local chapter serves as a social and service organization for English majors. Recent chapter activities include book sales, poetry readings, pizza parties, and theater trips.

English majors interested in creative writing can earn a minor in that area and participate in the editing process of *Pleiades: A Journal of New Writing*, the highly regarded, internationally distributed literary magazine produced by the department's award-winning creative writing faculty.

Faculty in all areas of the department work closely with students while maintaining their own research interests, and English majors generally get to know several faculty members well.

### Contact the Department

To learn more about majoring in English at UCM, contact the Department of English and Philosophy at 660-543-4425, visit the web page at [www.ucmo.edu/engphil/](http://www.ucmo.edu/engphil/), or stop by Martin 336.

The Office of Admissions in Ward Edwards 1400 can be reached by phone at 877-SAY-UCMO (877-729-8266) or on the web at [www.ucmo.edu](http://www.ucmo.edu).

**English Major, B.A. Degree (42-303)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ENGL 2210 or 2215 British Literature	3	ENGL 2200 or 2205 American Literature	3
General Education	6	ENGL 2220 World Masterpieces*	3
Free Choice Elective	6	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ENGL 3240 Critical Approaches to Literature	3	ENGL 3120 History of English Language	3
ENGL British Literature A or B Elective***	3	ENGL 4360 Shakespeare	3
Minor Coursework	6	ENGL American Literature A or B Elective***	3
Free Choice Elective	3	Minor Coursework	6
<b>Semester Total</b>	<b>15</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>18</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
ENGL American Literature A or B Elective***	3	Upper-Level ENGL Electives	6
ENGL British Literature A or B Elective***	3	Minor Coursework	6
ICAP 4240 Literature and Its Discourses	3	Free Choice Elective	4
Upper-Level ENGL Elective	3	<b>Semester Total</b>	<b>16</b>
Minor Coursework	3		
<b>Semester Total</b>	<b>15</b>		

**English Major, B.A. Degree - 124 hours**

- \*Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220 World Masterpieces.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success.
- \*\*\*See the Undergraduate Catalog for the choices that fulfill this requirement.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Arts, Humanities, and Social Sciences

Department of English and Philosophy

# ENGLISH

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

This program is designed for University of Central Missouri students who want to teach English and leads to certification to teach high school English in Missouri. Certification may also be transferable to other states, depending on their requirements.

The courses required for this program include composition and evaluation, advanced rhetoric, English grammar, history of the English language, literature for adolescents, and a block of professional education courses. English education majors also choose several courses in American, British, and world literature. During their last semester, students in this program student teach in an area high school. All teacher education programs at UCM are accredited by the National Council for Accreditation of Teacher Education and by the Missouri Department of Elementary and Secondary Education.

This degree also provides a good foundation for graduate work in English or another field.

### Career Opportunities

Graduates of this program enjoy a 100 percent placement record in Missouri.

### Student Activities

Students are eligible to apply for membership in Sigma Tau Delta, the English Honor Society. Affiliated with the national organization, the local chapter serves as a social and service organization for English majors. Recent chapter activities include book sales, poetry readings, pizza parties, and theater trips. Students interested in creative writing may want to learn more about *Pleiades: A Journal of New Writing*, which is distributed nationally and produced by the department's award-winning creative writing faculty.

### About the Faculty

The Department of English and Philosophy has a diverse faculty dedicated to teaching a wide variety of courses in literature, writing, linguistics, and critical thought.

Faculty in all areas of the department work closely with students while maintaining their own research interests, and English majors generally get to know several faculty members quite well.

### For More Information

To learn more write to the Department of English and Philosophy, Martin 336, UCM, Warrensburg, MO 64093; call 660-543-4425; or visit the department's web page at [www.ucmo.edu/englphil/](http://www.ucmo.edu/englphil/).

For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's web site is [www.ucmo.edu](http://www.ucmo.edu).

**English Education Major, B.S. in Ed. Degree (41-311)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
General Education	12	<b><i>POLS 1510 American Government</i></b>	3
<b>Semester Total</b>	<b>15</b>	<b><i>General Education Math</i></b>	3
AE 1400 Freshman Seminar*	1	General Education	6
		<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
EDFL 2240 Educational Psychology	3	ENGL 2200 or 2205 American Literature	3
ENGL 2210 or 2215 British Literature	3	ENGL 2220 World Masterpieces (General Education)	3
ENGL 2830 Literature for Adolescents	3	ENGL 3120 History of the English Language	3
EDFL 2100 Foundations of Education	2	<b><i>HIST 1350 or 1351 History of the United States</i></b>	3
FLDX 2150 Introductory Field Experience	1	General Education	2-3
<b><i>General Education Science w/lab</i></b>	4	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of the Exceptional Child	2	EDFL 4300 Educational Measurement & Evaluation	2
ENGL 3110 English Grammar	3	ENGL 3040 Advanced Rhetoric	3
ENGL 3240 Critical Approaches to Literature	3	Upper-Level American Literature**	3
PSY 4230 Psychology of Adolescence	3	Upper-Level British Literature**	3
Upper-Level American Literature**	3	Upper-Level English Elective	6
Free Choice Electives	1-2	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>15-16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester***</b>	<b>Hrs</b>
EDFL 4210 Teaching Reading in Secondary School	2	ENGL 4820 Secondary Field Experience II	1
ENGL 4360 Shakespeare	3	ENGL 4890 Methods of Teaching English	2
ENGL 4840 Composition & Evaluation	3	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Management	3	ICAP 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	<b>Semester Total</b>	<b>12</b>
Upper-Level British Literature**	3		
<b>Semester Total</b>	<b>15</b>		

**English Education Major, B.S. in Ed. Degree - 120 hours**

- \* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*See the current catalog for the choices that fulfill this requirement.
- \*\*\* The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## Harmon College of Business and Professional Studies

Department of Management

AACSB Accredited

# ENTREPRENEURSHIP AND SOCIAL ENTERPRISE

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

The Department of Management in the Harmon College of Business and Professional Studies (HCBPS) at UCM offers students hands-on real experiences to help them prepare for a socially aware entrepreneurial career, a career in social enterprise, or both.

This major is unique in its focus on promoting new ventures that start from the ground up with practical, innovative and sustainable approaches to benefit society in general. No other university in Missouri or Kansas addresses for-profit entrepreneurship in a social enterprise setting. Courses are taught utilizing team-based learning and real experiences, rather than lecture, to give students both the theory and practice of entrepreneurship and social enterprise.

In the B.S.B.A. in Entrepreneurship and Social Enterprise, our students will use knowledge and skills from the program to:

- Design, launch and/or grow new businesses in a variety of sectors, return home to assist family businesses, or take on business development roles at growth-oriented companies.
- Interact with others to create business solutions and innovations with a social conscience, develop technology that is environmentally sustainable and tackle social problems with profitable solutions.
- Apply analysis and problem solving skills to provide meaningful and sustainable service to the University, community, and citizens of Missouri and the world.
- Develop skills and attitudes required for life-long learning and serving others.

### Qualified, Committed Faculty

We have highly qualified faculty with Ph.D.s and real business experience. Faculty are very committed to working with students to ensure their success. See our "How Your Management & Business Communication Faculty Can Help You" link ([www.ucmo.edu/management/about/help.cfm](http://www.ucmo.edu/management/about/help.cfm)).

### Team-Based, Experiential Learning Style of Instruction

Faculty members prepare students to work effectively and efficiently in team environments.

### The Integrative Business Experience (IBE)

(<http://ibe.ucmo.edu>)

IBE classes create, operate, and execute start-up businesses (based on bank loans of up to \$5,000 per business) and manage hands-on service projects for non-profit organizations. In the last 5 ½ years, IBE teams have donated more than \$185,000 in profits to non-profit organizations and have completed service projects involving more than 6,000 hours for the community.

### Real-World Business Experience Internship Programs

Business majors participate in paid internships. The HCBPS Business Internship Center information is at <http://ucmo.edu/intern>.

### Course & Enterprise Collaborations

The major builds on an existing infrastructure of entrepreneurial mentors, entrepreneurial camps, student organizations, and our relationship with IESD/SBDC and

Integrative Business Experience (IBE) curriculum.

### Business Organizations

The most popular clubs for Entrepreneurship and Social Enterprise majors are SIFE and DECA which any UCM major may join. Student business organizations are at [www.ucmo.edu/orgrequest/orglist.cfm](http://www.ucmo.edu/orgrequest/orglist.cfm)

### AACSB Accredited Degree

All UCM business programs are accredited by the AACSB International ([www.aacsb.edu](http://www.aacsb.edu)).

### Employer interest in Entrepreneurship and Social Enterprise majors

College recruiting is up 20% this year and is expected to continue to rise for the next 3-5 years. Entrepreneurship and Social Enterprise Majors would be hired by small firms, which represent 99.7% of all employers. Small startups generated 100% of net new jobs in the U.S. in the past 20 years, while large established firms eliminated more jobs than they hired. Other hiring employers include nonprofit, education, healthcare and government sectors. The number of nonprofit organizations grew 27 percent from 1994 to 2004, while the number of public charities grew at more than twice that rate.

### To Learn More

For more information write to the Harmon College of Business and Professional Studies, UCM, Warrensburg, MO 64093; visit HCBPS's web pages at [www.ucmo.edu/HCBPS](http://www.ucmo.edu/HCBPS); call the Department of Management at 660-543-4026 or HCBPS at 660-543-4560.

For admission information, call 877-SAY-UCMO. Central Missouri's web address is [www.ucmo.edu](http://www.ucmo.edu).

**Entrepreneurship and Social Enterprise Major, B.S.B.A. Degree (46-331)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
CIS 1600 Business Information Management*+		3	COMM 1000 Public Speaking		3
ENGL 1020 Composition I		3	ECON 1010 Principles of Macroeconomics*		3
MATH 1111 College Algebra*		3	ENGL 1030 Composition II		3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology#		3	General Education		3
General Education		3	<b>Semester Total</b>		<b>12</b>
<b>Semester Total</b>		<b>15</b>			
AE 1400 or BADM 1400 Freshman Seminar**		1			

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*		3	ACCT 2102 Principles of Managerial Accounting*		3
ECON 1011 Principles of Microeconomics*		3	BLAW 2720 Legal Environment of Business*		3
FIN 2801 Business Statistics I*		3	General Education		10
General Education#		6	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>			

**Note: Complete all BSBA Admission requirements and apply for admission.\***

<b>Summer (either before Junior or Senior year)</b>		<b>Hrs.</b>
ENT 3360 Innovation for Strategic Advantage		3
ENT 3800 Social Enterprise for Entrepreneurs		3
<b>Semester Total</b>		<b>6</b>

<b>Junior Year - Fall Semester (IBE Block-below)***</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
CIS 3630 Management Information Systems***		3	FIN 3801 Business Statistics II		3
MGT 3315 Management of Organizations***		3	FIN 3850 Principles of Finance		3
MKT 3405 Marketing Policy***		3	MGT 3325 Business Communications		3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***		3	MGT 3360 Production/Operations Management		3
General Education		3	Free Choice Electives (internship recommended)		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
MGT 4310 Quality Systems		3	ENT 4315 Entrepreneurship		3
MKT 4470 Marketing Research		3	ICAP 4357 Organizational Policy & Strategy		3
Major Electives##		3	Major Electives##		3
Free Choice Electives (internship recommended)		4	Free Choice Electives (internship recommended)**		4
<b>Semester Total</b>		<b>13</b>	<b>Semester Total</b>		<b>13</b>

**Entrepreneurship and Social Enterprise Major, B.S.B.A. Degree - 120 Hours**

- \* Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\* AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If chosen, 1 less hour of free choice elective will be required in the junior or senior year.
- \*\*\* **All Entrepreneurship and Social Enterprise majors must enroll in the IBE Block.** This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1605 or ACCT 2110, ECON 1010 and 1011, and junior standing.
- + CIS 1600 taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and CIS 1605 and will fulfill UCM's General Education Division II Area A Part II Technology requirement.
- # In the General Education curriculum: SOC 1800 is recommended over PSY 1100 in Division II Area B; WS 2000 is recommended in Division II Area D; and BLAW 2750 or PHIL 2300 are recommended in Division III.
- ## Six hours of major electives are required. See the course listing in the 2011 Undergraduate Catalog for course choices.
- A 2.25 cumulative GPA is required for graduation with in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# FASHION: TEXTILES AND CLOTHING IN BUSINESS

## BACHELOR OF SCIENCE DEGREE

The Fashion: Textiles and Clothing in Business program at University of Central Missouri prepares students for a business-related career in the fashion/textile industry. This ever-changing field offers students challenging and diverse career opportunities ranging from employment with large companies to being a self-employed merchant. Many graduates find positions at fashion industries, department stores and other retail outlets. Graduates hold positions such as store/department managers, buyers, fashion representatives, fashion coordinators, manufacturers' representatives, visual merchandisers, and fashion editors.

This program provides students a theoretical foundation in marketing as well as hands-on experience in laboratory settings. It includes a combination of area-specific fashion/textiles and business courses that place an emphasis on national and international markets with general university studies classes, and an internship is required. This experience is a transition from the school environment to the business field in a realistic setting which often leads to a permanent position.

### About the Faculty

All Fashion: Textiles and Clothing in Business courses are taught by highly qualified faculty members who have practical and educational backgrounds in apparel and textiles merchandising. In addition, faculty members possess current industry experience that provides students with information necessary for school and business relationships. Both national and international involvement provides students with a realistic setting of the global job market.

Faculty members attend professional meetings to network with educators and business representatives. The modest student-faculty ratio allows students to receive individual attention, and faculty members work one-on-one with students to assist in planning of degree programs.

### Student Involvement

Students are encouraged to join the Fashion Business Association to become involved with campus and community activities. This student organization has field trips and participates in community service projects. Fundraisers provide students with an excellent opportunity to be productive citizens and contribute to the socialization and learning process.

### Collections

History and tradition abound at UCM. One of the university's most recognized collections is the Helen Ball Historic Costume Collection, dating from the mid 1800s to the 1980s. Another is the recently acquired Evelyn Louise Sims Collection of designer fashion from the middle to late 20th Century. These collections are a valuable resource that give students the opportunity to see authentic apparel pieces from the past. They are used in community service projects, and numerous trunk shows are presented to local organizations. This is an important part of the learning experience, and allows students to plan, coordinate and participate in fashion shows.

### Study Tours

A variety of study tours are offered, all of which are based on student interests. The European study

tour has included visits to Paris, the fashion capital of the world, as well as The Netherlands, Germany, Italy, Spain and England, to name a few. Domestic tours have included visits to Dallas, where students have attended career seminars and met with retailers such as Nieman Marcus and Marshall Field's. Study tours to Mall of America in Minnesota have included workshops with the GAP, Nordstrom, and Bloomingdale's. The New York study tour has included visits to the garment district and designer showrooms. These experiences have provided career opportunities, as well as contacts with professionals in the fashion apparel industry.

### Placement

UCM's Office of Career Services helps students who seek employment. The office serves officials of business, government, industry and education who are looking for prospective employees. This service gives students the opportunity to arrange interviews with potential employers.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology), and its fax number is 1-660-543-4578.

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Fashion: Textiles & Clothing in Business Major, B.S. Degree (43-118)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CFD 1010 Individual & Family Relationships	3	CHEM 1103 or 1104 Introduction to the Sciences: Chemistry	3-4 3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
FAME 1400 Introduction to Fashion Merchandising	3	FAME 1450 Fund. of Apparel Design and Construction	3
FAME 1445 Freshman Seminar in Fashion	1	General Education	<b>12-13</b>
General Education	6	<b>Semester Total</b>	
<b>Semester Total</b>	<b>16</b>		
<b>Summer - After Freshman or Sophomore Year</b>	<b>Hrs.</b>		
FAME 2440 Professional Work Experience*	3		
<b>Semester Total</b>	<b>3</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	FAME 2425 Apparel Quality Analysis	3
FAME 2442 Textile Science	3	Minor Coursework (BLAW 2720 required for both minors)**	3 9
FAME 2445 Sophomore Seminar in Fashion	1	General Education	<b>15</b>
General Education	6	<b>Semester Total</b>	
<b>Semester Total</b>	<b>13</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting	3	FAME 3430 Professional Image Management	3
FAME 3415 Product Development for Consumers	3	FAME 3435 Fashion Buying	3
FAME 3434 Fashion History of Costume	3	FAME 3440 Fashion Promotion and Visual Merchandising***	3
FAME 3445 Junior Seminar in Fashion	1	IGEN 3116 Creative Problem Solving	3
Minor Coursework (MKT 3405 required for both minors)**	3	Minor Coursework**	<b>15</b>
General Education	3	<b>Semester Total</b>	
<b>Semester Total</b>	<b>16</b>		
<b>Summer - After Junior or Senior Year</b>	<b>Hrs.</b>		
FAME 4490 Internship in FAME*/***	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
FAME 4410 Materials for Interior Furnishings	3	FAME 4433 International Apparel Technology***	3
FAME 4425 Fashion Entrepreneurship	3	FAME 4440 Sustainability for Consumer Products	3
Minor Coursework**	6	FAME 4445 Senior Seminar in FAME***	3
General Education	3	Minor Coursework**	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12</b>

**Fashion: Textiles & Clothing in Business Major, B.S. Degree - 120 hours**

- \*FAME 2440 Professional Work Experience is a prerequisite to FAME 4490 Internship in FAME. The two courses cannot be taken during the same summer semester.
- \*\*This major requires a minor in either Business Administration or Marketing. If the Business Administration minor is selected, take BTE 1210 (2 hours) to fulfill the technology requirement in general education. ECON 1010 required by the major will also count in both minors.
- \*\*\*This class is only offered during the semester indicated.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Economics, Finance, and Marketing

AACSB Accredited

# FINANCE

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

A Bachelor of Science in Business Administration with a functional major in finance prepares students for dynamic careers in a variety of finance positions. The finance field consists of three basic areas – Investments, Business (Corporate) Finance, Banking and Related Institutions. Students receiving a BSBA in Finance are given a broad-based knowledge of finance which they may supplement by focusing on a particular area through choice of electives in finance. Electives include topics in international finance, derivative securities, bank management, and insurance among others. This creates a number of career options, or choices for advanced education for undergraduates.

In addition to rigorous training in finance, the BSBA requirements provide an overview of all business areas. Students are required to complete courses in accounting, computer information systems, management and marketing. This extensive training, along with the Harmon College of Business and Professional Studies's prestigious accreditation by AACSB-International, ensure students are well-prepared for a rewarding career in finance and business.

### About the Faculty

Finance classes at UCM are instructed by highly qualified faculty members with a diverse set of training and work experiences. These faculty members are actively engaged in academic research, serve as professional consultants, and are involved in numerous professional organizations. These activities, along with the accrediting standards set by the AACSB-International, guarantee students that faculty members possess cutting edge finance knowledge. Finance faculty members are committed to personalized attention for each finance major.

### Student Involvement

Students pursuing a finance degree have access to a variety of campus organizations and events. The Department of Economics, Finance, and Marketing sponsors the Student Finance Association (SFA), which regularly sponsors on-campus speakers in finance and off-campus trips to agencies such as the Federal Reserve Bank of Kansas City and the Kansas City Board of Trade. The SFA also sponsors a student chapter of the Financial Management Association International which allows qualified students to join the highly regarded Financial Management Association National Honor Society.

In addition to on-campus activities, students are encouraged to complete an internship in finance in order to gain greater practical skills and insight during the completion of the undergraduate degree.

### Special facilities

The department's offices are housed in the Dockery Building. Classrooms, however, are located in the state-of-the-art Ward Edwards Building, which includes a large computer lab, group computer rooms, group and individual study rooms, student organization offices, and common areas for students. Classrooms are equipped with up-to-date computer hardware and software. In addition to the standard classrooms, the department maintains a statistics classroom in which each student workstation is equipped with a notebook computer, allowing for hands-on learning of the procedures available in statistical software packages. Further, students majoring in finance must complete projects utilizing extensive financial databases such as the Center for Research in Securities Prices (CRSP) stock price database and the Standard and Poor's Research Insight database of corporations' financial statements.

### Placement

Students in finance remain in high demand by employers. Graduates with a BSBA in Finance from UCM have obtained employment in financial planning, insurance, banking, corporate finance, and investment services in locations such as Kansas City, St. Louis, New York City and Chicago. Employers have ranged in size from multi-billion dollar Fortune 500 companies to single-owner entrepreneurs.

UCM's Office of Career Services assists students in finding employment by maintaining contacts with a variety of employers. Students are encouraged to register with Career Services early.

### To Learn More

For more information, contact the Department of Economics, Finance, and Marketing, UCM, Warrensburg, MO 64093 at 660-543-4246. The department's web address is [www.ucmo.edu/econ](http://www.ucmo.edu/econ).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Finance Major, B.S.B.A. Degree (46-267)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management*+	3	COMM 1000 Public Speaking	3
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics*	3
MATH 1111 College Algebra*	3	ENGL 1030 Composition II	3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 or BADM 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
ECON 1011 Principles of Microeconomics*	3	BLAW 2720 Legal Environment of Business*	3
FIN 2801 Business Statistics I*	3	General Education	9
General Education	7	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>	<b>Note: Complete all B.S.B.A. Admission requirements and apply for admission*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ECON 3020 Money & Banking	3	FIN 3861 Financial Management I***	3
FIN 3801 Business Statistics II	3	FIN 3881 Financial Institutions & Markets***	3
FIN 3850 Principles of Finance***	3	FIN 3891 Security Analysis***	3
MGT 3325 Business Communication	3	MGT 3315 Management of Organizations	3
Free Choice Electives	5	Finance or Business Elective#	3
<b>Semester Total</b>	<b>17</b>	Free Choice Elective	1
		<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CIS 3630 Management Information Systems	3	ACCT 4115 Financial Statement Analysis	3
ECON 3030 Intermediate Microeconomics	3	ICAP 4357 Organizational Policy & Strategy	3
MKT 3405 Marketing Policy	3	MGT 3360 Production/Operations Management	3
Finance Electives#	6	Finance Electives#	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Finance Major, B.S.B.A. Degree - 124 Hours**

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.40 cumulative GPA and a 2.40 in these specific courses, before admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- \*\*\*A minimum grade of C must be earned in FIN 3850, FIN 3861, FIN 3881, and FIN 3891 if they are to be applied toward the fulfillment of a Finance major or minor.
- +CIS 1600 taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and CIS 1605 and will fulfill UCM's General Education Division II Area A Part II Technology requirement.
- #Finance electives are: FIN 3835, FIN 4803, FIN 4804, FIN 4815, FIN 4817, FIN 4820, FIN 4862, FIN 4880. FIN 4830 may be available as an elective with department chair approval. Electives are not offered every semester – check with the department chairperson.
- A 2.40 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# FORENSIC CHEMISTRY

## BACHELOR OF SCIENCE DEGREE

The future depends greatly on how people solve the world's problems, and problem solving is what chemists and physicists do best. From medicinal chemistry to research in superconductivity, there are abundant opportunities in the sciences. The programs offered by the Department of Biochemistry, Chemistry & Physics at the University of Central Missouri prepare students for many rewarding cutting-edge careers.

The chemistry and physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience. Students with a major in chemistry receive extensive state of the art, hands-on experience with instrumentation, such as UV-Visible, FTIR, and FTNMR spectroscopy; chromatography (GC/MS/MS/HPLC); calorimetry; fluorometry; electrochemical analysis and others.

### Accreditation

The bachelor of science major in forensic chemistry is accredited by the American Chemical Society.

### About the Faculty

Active research, workshop and seminar participation keep physics and chemistry faculty current in the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in UCM's Department of Biochemistry, Chemistry & Physics have earned doctorates in their fields of expertise.

The department's caring and experienced faculty provide individualized attention for their students, and the university's low student-to-faculty ratio allows for such

personalized activity. Classroom learning is reinforced through practical laboratory experiences, where the use of instrumentation is emphasized.

### Facilities

The Department of Biochemistry, Chemistry & Physics is located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

### Career Opportunities

Forensic chemistry is a common and well-suited major for many of the preprofessional programs (medicine, dentistry, veterinary, pharmacy, optometry) and also qualifies graduates to work as teachers or as chemists in industry and government. Forensic chemistry students are provided very attractive financial assistance should they choose to continue their studies at the graduate level. Graduate studies in biochemistry, analytical, organic, inorganic, chemical education, petroleum and pharmaceutical chemistry are among the numerous options available.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The

Society of Physics Students and the American Chemical Society provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside of the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities. Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma or Beta Beta Beta.

Chemistry and physics students are considered for employment as laboratory or department assistants after completion of a minimum amount of training and study. This opportunity provides students with valuable teaching, research and technical experience.

The Department of Biochemistry, Chemistry & Physics collaborates with the Departments of Criminal Justice and Biology and Earth Science to offer a minor in forensic science. Graduates completing the minor will be able to complete DNA testing and analyze trace evidence as entry level laboratory personnel.

### To Learn More

For more information write to the Department of Biochemistry, Chemistry & Physics, UCM, Warrensburg, MO 64093, call 660-543-4948, or visit the department's web site at [www.ucmo.edu/chemphys](http://www.ucmo.edu/chemphys).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Forensic Chemistry Major, B.S. Degree (43-294)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1131 General Chemistry I	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MATH 1151 Calculus & Analytical Geometry I	5	General Education	6
General Education	2	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 1110 Principles of Biology	3	CHEM 3212 Quantitative Analysis	3
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 or PHYS 2121 College/University Physics I	4-5	PHYS 1102 or PHYS 2122 College/University Physics II	4-5
General Education	3	General Education	3
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>14-15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2511 Genetics	4	BIOL 2010 Human Biology or	
CHEM 3111 Intermediate Inorganic Chemistry	4	BIOL 2401 Anatomy & Physiology I	3-4
CHEM 3421 Intermediate Biochemistry	3	BIOL 4013 Introduction to Experimental Design & Analysis	3
CHEM 4231 Instrumental Analysis	4	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 3410 Forensic Science	3	BIOL 4514 Molecular Biology	3
CJ 1000 Introduction to Criminal Justice	3	CHEM 4531 Physical Chemistry I** or	
Major Elective**	3	CHEM 4532 Physical Chemistry II**	4
General Education	3	CJ 4302 Criminal Evidence	3
Free Choice Elective	3	General Education (IGEN/ICAP)	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	2-5
		<b>Semester Total</b>	<b>15-18</b>

**Forensic Chemistry Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Upper level chemistry courses offered variably. Check department for actual offerings.
- The number of free choice electives required to reach the minimum hours required for a degree (120) will depend on selections made in the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# GRAPHIC ARTS TECHNOLOGY MANAGEMENT

BACHELOR OF SCIENCE DEGREE

University of Central Missouri offers the only print-based four-year baccalaureate degree graphic arts technology management program in the state of Missouri. In addition, the department enrolls the fifth-largest number of students in graphic arts courses of any school in the nation. The program at UCM is recognized nationally, particularly in mid-America. Central Missouri's Graphic Arts Technology Management Program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

The primary focus of the graphic arts technology-management program is to prepare individuals to meet the demand for digital imaging specialists, managers, sales representatives, estimators, buyers, production planners, customer service representatives, and production supervisors in the graphic arts, printing, and packaging industries and allied fields. Students who complete the program have a broad-based background in print and can obtain a specialized area of expertise. Employers indicate that the university's graphic arts technology management graduates learn fast, are reliable, and are able to adapt as productive decision makers. They also return year after year to seek out Central Missouri graduates for other positions.

### Employment Opportunities

More than 95 percent of the university's graphic arts graduates find employment in a graphic arts-related position for their initial employment, move up the management ladder, and remain in graphic arts-related industries.

### State-of-the-Art Facilities

The graphic arts laboratories at UCM are, by far, the best equipped and most comprehensive facilities in the Midwest and are among the best in the nation. More than 10,000 square feet of modern laboratory space is occupied by specialized graphic arts equipment, which provides a complete system of printing production from graphic design through printed product delivery. Using offset, screen, flexography and digital methods, along with a fully equipped binding and finishing laboratory, the printing industry's interest in UCM's graphic arts program is evidenced by continual support through generous donations of major equipment and supplies.

### About the Faculty

Students learn from highly experienced full-time faculty members who provide individualized student program advisement. The university's modest student-faculty ratio allows students to benefit from personalized attention. Faculty members are active in technical research and professional memberships, and they participate in workshops and seminars to stay current in their field.

### Student Involvement

Students are encouraged to supplement their academic program through participation in campus organizations of special professional, service and academic interest. Graphic arts students are eligible for membership in the internationally affiliated Technical Association of Graphic Arts and the International Club of Printing House Craftsmen, both of which promote the field of graphic arts. Students

can also become members in the Graphic Arts Technical Foundation and can participate in a variety of professional organizations. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### Scholarships

In addition to more than \$5 million in merit-based scholarships and awards offered each year by the university, the National Scholarship Trust Fund of the Graphic Arts Technical Foundation offers scholarships for students who display aptitude in graphic arts. Other scholarships are provided by the Printing and Imaging Association of MidAmerica, the Foundation of Flexographic Technical Association, the Electronic Document Systems Foundation, and the Tag and Label Manufacturers Institute. Students may also compete for the Jones, Kohler, Sarantakos, Brahney, and Grinstead scholarships.

### To Learn More

For more information write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093; call 660-543-4439; or visit the school's web site at [www.ucmo.edu/technology](http://www.ucmo.edu/technology).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Graphic Arts Technology Management Major, B.S. Degree (43-146)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
GRAP 1000 Orientation to Graphic Arts*	1	GRAP 2030 Digital Pre-Press for Printing Applications	3
GRAP 1010 Fundamentals of Printing Processes	3	GRAP 2031 Digital Imaging Processing	3
General Education	8	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting	3	GRAP 2035 Digital Imposition & Workflow*	3
GRAP 2032 Imaging Technology	3	GRAP 3045 Substrates & Inks*	4
GRAP 3034 Offset Press Technology*	3	Major Emphasis Area Elective**	3
PHYS 1104 Physics or CHEM 1104 Chemistry	4	General Education	6
Major Emphasis Area Elective**	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Summer - Between Sophomore &amp; Junior Year</b>	<b>Hrs.</b>		
GRAP 3016 or SOT 3022 Internship** (Optional)	3		
<b>Semester Total</b>	<b>3</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
GRAP 3024 Flexographic Technology*	3	GRAP 3043 Binding, Finishing, & Distribution*	3
GRAP 4038 Color Science*	4	GRAP 3051 Graphic Art Management*	3
Major Emphasis Area Elective**	3	MGT 3315 Management of Organizations or	
General Education	6	INDM 4210 Industrial Management	3
<b>Semester Total</b>	<b>16</b>	MGT 3325 Business Communications	3
		Major Emphasis Area Elective**	3
		<b>Semester Total</b>	<b>15</b>
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>		
GRAP 3016 or SOT 3022 Internship***	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
GRAP 3057 Graphic Arts Quality Assurance*	3	GRAP 4055 Printing Estimating & Costing*/#	3
GRAP 4053 Graphic Arts Production Analysis*	3	IGEN 3116 Creative Problem Solving	3
GRAP 4095 Senior Seminar in Graphic Arts*	1	General Education	3
General Education	6	Free Choice Elective	3
Free Choice Elective	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>16</b>		

**Graphic Arts Technology Management Major, B.S. Degree - 124 hours**

- \*This class is only offered during the semester indicated.
- \*\*Students will choose one of the following major emphasis areas: Customer Service and Sales, Graphic Design, Multimedia/Imaging, Production Management and Supervision, or Technical Application. Twelve hours of major emphasis hours must be approved by a faculty adviser prior to registration. A list of suggested electives per area is available from the Graphic Arts Technology Management Coordinator.
- \*\*\*GRAP 3016 or SOT 3022 Internship may be in a Summer, Fall or Spring Semester. It is optional Sophomore/Junior year.
- #It is recommended that students enroll in GRAP 4055, Printing Estimating and Costing, during the spring semester immediately prior to graduation.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# GRAPHIC DESIGN

BACHELOR OF FINE ARTS DEGREE

Through University of Central Missouri's Bachelor of Fine Arts (BFA) in Graphic Design program, students develop their creative talents and technical skills to become graphic designers in advertising agencies, design firms, public relations, direct mail, in-house art departments of magazines and newspapers, book publishers, retail chains, commercial printing firms, freelance and other creative venues.

Students master creative problem solving, conceptual and aesthetic judgment, and the use of computer technology as a design tool through instruction from highly experienced faculty and from hands-on experience in studios and laboratories.

### Career Opportunities

There are career opportunities available globally and for a wide range of salaries. Typical kinds of work assignments include logo/trademark design, package design, publication design, advertising design, layout, type design, web page design and motion design executed for magazines, newspapers, newsletters, annual reports, advertising, book jackets, CD covers, posters, film and television. Students are encouraged to seek professional internships and may receive course credit.

The BFA in Graphic Design keeps up with a changing industry and graduates hold fulfilling employment across the nation and in many foreign countries. Because of this, UCM's Graphic Design program continues to grow in both numbers and quality. The combination of talent, motivation, program content, and excellent instruction continues to serve our Graphic Design majors' career objectives well.

### State-of-the Art Facilities

Students use up-to-date Macintosh computers, software, scanners, printers and other peripherals that are standard in their career field as an integral part of their education. In addition, through required support courses from the School of Technology, students gain skills and knowledge of the commercial printing industry, i.e. photography, prepress, and digital imaging, as an important adjunct to their creative skill set.

### Accreditation

UCM's Department of Art & Design is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state-supported four-year school in Missouri with such accreditation. Of the approximately 2,000 college art programs nationwide,

NASAD has approved less than 15 percent, based on proven rigor and content. UCM has held NASAD accreditation continuously since 1986.

### Community

Our students have opportunities with professional groups in Kansas City including the Ad Club and American Institute of Graphic Arts (AIGA). Locally, we have an active AIGA UCM student group. Many students choose to live in the "ARTSHIP" residence hall community for art majors. The BFA in Graphic Design program is one of the larger majors on campus and students enjoy fellowship with a diverse group of peers.

### For More Information

To learn more write to the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Graphic Design, B.F.A. Degree (47-324)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART 2511 Painting I	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	3	GRAP 1010 Fundamentals of Printing Processes	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-Western Art Hist. (spring)	3	ART 1825 Art History Survey II	3
ART 2335 Design III	3	ART 2710 Printmaking I	3
ART 2610 Introduction to Graphic Design & Illustration	3	ART 3620 Logo & Trademark Design	3
ART 3610 Typography	3	ART 3660 Publication Design	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2412 Ceramics I or ART 2420 Sculpture I	3	ART 3640 Package Design	3
ART 3510 Watercolor	3	ART 4610 Interactive Design (spring) or ART 4620 Motion Design (fall)	3
ART 3630 Design for Advertising	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
Major Electives*	6	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ART Elective	3	ART 4020 Studio Seminar (Portfolio)	3
Major Electives*	6	ICAP 4221 Artists in Contemporary Society	3
General Education	6	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Graphic Design, B.F.A. Degree - 126 hours**

- \*This major requires 12 hours of major electives. The 12 hours of major electives should be chosen from the list provided in the Undergraduate Catalog.
- Students should meet with program area faculty for more detailed advice regarding the sequencing of required major coursework in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# HEALTH STUDIES

BACHELOR OF SCIENCE DEGREE - OPTION 1 SOCIAL SCIENCE

Today's health professionals face a wealth of challenges. Chronic conditions such as cardiovascular disease, obesity, cancer and diabetes, as well as bioterrorism, drug-resistant disease and transmission of disease by global travel pose tremendous health risks. Students preparing to enter the health care field require state-of-the-art training to meet these increasing threats to the public.

The health studies baccalaureate allows students to select from one of three major option areas; social science, pre-physical therapy/pre-occupational therapy or community health.

### Social Science

In this area, students may pursue careers with community services and religious organizations; health care and long-term care institutions; and federal, state and local government agencies. With this program, students may:

- Conduct research on processes and aging diseases, such as Alzheimer's, dementia or osteoporosis;
- Analyze issues related to older persons, such as retirement, income maintenance, the health care system and housing alternatives;
- Plan, administer and evaluate community-based services and service delivery systems.

### Community Health

The community health program prepares students to specialize in the prevention of disease and promotion of appropriate wellness lifestyles. With this program, students will develop skills needed to:

- Educate the public on the importance of clean water and air;
- Guide the proper vaccination of children and adults;
- Encourage safe and appropriate use of prescription drugs;
- Protect the health and safety of all workers;
- Conduct campaigns and education programs to reduce morbidity and mortality from chronic diseases; and
- Develop school and community nutrition programs

### Pre-Physical Therapy / Pre-Occupational Therapy

Employment of physical therapists is expected to grow by 25 percent from 2009 to 2016, much faster than the average for all occupations. The long-term demand for physical therapists should continue to rise as new treatments and techniques expand the scope of physical therapy practices. In this area, students will gain the training to be accepted into professional education programs in physical therapy or occupational therapy.

### New Facility

The health studies program is housed in the new, state-of-the-art Morrow-Garrison complex. The facility will feature comfortable classrooms and modern labs, along with well-equipped rehabilitation and training rooms.

### Career Opportunities

Upon graduating from the health studies program, students will be prepared for a variety of careers focusing on health, nutrition and wellness. Some career opportunities include: health administrator, health researcher, health insurance caseworker, epidemiologist, public health scientist/analyst, and many more.

The health studies program will also prepare students for graduate or professional training in the areas of physician's assistants, medical doctors, osteopathic doctors, dentists, chiropractors and more.

### For More Information

To learn more about majoring in Health Studies, contact the Department of Nutrition and Kinesiology at 660-543-4256, visit the web page at [www.ucmo.edu/nutrition](http://www.ucmo.edu/nutrition), or stop by our offices in North Morrow 100 & 125.

**Health Studies Major - Option 1 Social Science, B.S. Degree (43-01330)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry or CHEM 1131 General Chemistry I*	4-5	CHEM 1604 Elementary Organic and Biochemistry or CHEM 1132 General Chemistry II	4-5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HED 1100 Personal Health or PHIL 2300 Ethics	3	MATH 1111 College Algebra	3
PSY 1100 General Psychology	3	SOC 1800 General Sociology	3
<b>Semester Total</b>	<b>13-14</b>	General Education	3
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>16-17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	BIOL 2402 Anatomy & Physiology II	4
SOWK 2600 Introduction to Social Welfare & Social Work	3	BIOL 3215 Medical Terminology	3
General Education	9	General Education	8
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
HED 4370 Human Diseases	3	NUR 4020 Grief & Loss	2
PSY 3340 Social Psy. or SOC 3870 Personality & Society	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives***	10	Free Choice Electives***	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ICAP 4111 Socio-Economic Factors Impacting Health	3	PSY 4520 Statistics for the Behavioral Sciences	3
SOC 4894 Sociology of Aging, NUR 4405 Aging of Self & Others, or PSY 4240 Psychology of Aging	2-3	SOC 4875 Medical Sociology	3
Free Choice Electives***	9	Free Choice Electives***	9-10
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>15-16</b>

**Health Studies Major - Option 1 Social Science, B.S. Degree - 120 hours**

- \*Enrollment in CHEM 1131 requires a score of 17 on the mathematics section of the ACT, a score of 550 on the mathematics section of the SAT, a passing score on a mathematics examination approved by the School of Environmental, Physical, and Applied Sciences, or a grade of C or better in MATH 1111.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*The number of free choice electives required will vary depending on the CHEM set and Option course choices chosen. At least 1 hour of the free choice electives must be at the upper-level (3000/4000) to reach the 30 hour minimum required for graduation.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# HEALTH STUDIES

BACHELOR OF SCIENCE DEGREE - OPTION 2 PRE-PHYSICAL THERAPY/PRE-OCCUPATIONAL THERAPY

Today's health professionals face a wealth of challenges. Chronic conditions such as cardiovascular disease, obesity, cancer and diabetes, as well as bioterrorism, drug-resistant disease and transmission of disease by global travel pose tremendous health risks. Students preparing to enter the health care field require state-of-the-art training to meet these increasing threats to the public.

The health studies baccalaureate allows students to select from one of three major option areas; social science, pre-physical therapy/pre-occupational therapy or community health.

### Social Science

In this area, students may pursue careers with community services and religious organizations; health care and long-term care institutions; and federal, state and local government agencies. With this program, students may:

- Conduct research on processes and aging diseases, such as Alzheimer's, dementia or osteoporosis;
- Analyze issues related to older persons, such as retirement, income maintenance, the health care system and housing alternatives;
- Plan, administer and evaluate community-based services and service delivery systems.

### Community Health

The community health program prepares students to specialize in the prevention of disease and promotion of appropriate wellness lifestyles. With this program, students will develop skills needed to:

- Educate the public on the importance of clean water and air;
- Guide the proper vaccination of children and adults;
- Encourage safe and appropriate use of prescription drugs;
- Protect the health and safety of all workers;
- Conduct campaigns and education programs to reduce morbidity and mortality from chronic diseases; and
- Develop school and community nutrition programs

### Pre-Physical Therapy / Pre-Occupational Therapy

Employment of physical therapists is expected to grow by 25 percent from 2009 to 2016, much faster than the average for all occupations. The long-term demand for physical therapists should continue to rise as new treatments and techniques expand the scope of physical therapy practices. In this area, students will gain the training to be accepted into professional education programs in physical therapy or occupational therapy.

### New Facility

The health studies program is housed in the new, state-of-the-art Morrow-Garrison complex. The facility will feature comfortable classrooms and modern labs, along with well-equipped rehabilitation and training rooms.

### Career Opportunities

Upon graduating from the health studies program, students will be prepared for a variety of careers focusing on health, nutrition and wellness. Some career opportunities include: health administrator, health researcher, health insurance caseworker, epidemiologist, public health scientist/analyst, and many more.

The health studies program will also prepare students for graduate or professional training in the areas of physician's assistants, medical doctors, osteopathic doctors, dentists, chiropractors and more.

### For More Information

To learn more about majoring in Health Studies, contact the Department of Nutrition and Kinesiology at 660-543-4256, visit the web page at [www.ucmo.edu/nutrition](http://www.ucmo.edu/nutrition), or stop by our offices in North Morrow 100 & 125.

**Health Studies Major - Option 2 Pre-PT/Pre-OT, B.S. Degree (43-02330)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry or CHEM 1131 General Chemistry I*	4-5	CHEM 1604 Elementary Organic and Biochemistry or CHEM 1132 General Chemistry II	4-5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HED 1100 Personal Health or PHIL 2300 Ethics	3	MATH 1111 College Algebra	3
PSY 1100 General Psychology	3	SOC 1800 General Sociology	3
<b>Semester Total</b>	<b>13-14</b>	General Education	3
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>16-17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	BIOL 2402 Anatomy & Physiology II	4
General Education	11	BIOL 3215 Medical Terminology	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>13</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
HED 4370 Human Diseases	3	PHYS 1102 College Physics II	4
PHYS 1101 College Physics I	4	PSY 4440 Abnormal Psychology	3
Free Choice Electives***	9	Free Choice Electives***	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
PE 2800 Biomechanics	3	ICAP 4111 Socio-Economic Factors Impacting Health	3
PSY 4520 Statistics for the Behavioral Sciences	3	PE 2850 Foundations of Exercise Physiology	3
Free Choice Electives***	9	Free Choice Electives***	8-10
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14-16</b>

**Health Studies Major - Option 2 Pre-PT/Pre-OT, B.S. Degree - 120 hours**

- \*Enrollment in CHEM 1131 requires a score of 17 on the mathematics section of the ACT, a score of 550 on the mathematics section of the SAT, a passing score on a mathematics examination approved by the School of Environmental, Physical, and Applied Sciences, or a grade of C or better in MATH 1111.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*The number of free choice electives required will vary depending on the CHEM set chosen. At least 15 hours of the free choice electives must be at the upper-level (3000/4000) to reach the 30 hour minimum required for graduation.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# HEALTH STUDIES

BACHELOR OF SCIENCE DEGREE - OPTION 3 COMMUNITY HEALTH

Today's health professionals face a wealth of challenges. Chronic conditions such as cardiovascular disease, obesity, cancer and diabetes, as well as bioterrorism, drug-resistant disease and transmission of disease by global travel pose tremendous health risks. Students preparing to enter the health care field require state-of-the-art training to meet these increasing threats to the public.

The health studies baccalaureate allows students to select from one of three major option areas; social science, pre-physical therapy/pre-occupational therapy or community health.

### Social Science

In this area, students may pursue careers with community services and religious organizations; health care and long-term care institutions; and federal, state and local government agencies. With this program, students may:

- Conduct research on processes and aging diseases, such as Alzheimer's, dementia or osteoporosis;
- Analyze issues related to older persons, such as retirement, income maintenance, the health care system and housing alternatives;
- Plan, administer and evaluate community-based services and service

delivery systems.

### Community Health

The community health program prepares students to specialize in the prevention of disease and promotion of appropriate wellness lifestyles. With this program, students will develop skills needed to:

- Educate the public on the importance of clean water and air;
- Guide the proper vaccination of children and adults;
- Encourage safe and appropriate use of prescription drugs;
- Protect the health and safety of all workers;
- Conduct campaigns and education programs to reduce morbidity and mortality from chronic diseases; and
- Develop school and community nutrition programs

### Pre-Physical Therapy / Pre-Occupational Therapy

Employment of physical therapists is expected to grow by 25 percent from 2009 to 2016, much faster than the average for all occupations. The long-term demand for physical therapists should continue to rise as new treatments and techniques expand the scope of physical therapy practices. In this area, students will gain the training to be accepted into professional education programs in physical therapy or occupational

therapy.

### New Facility

The health studies program is housed in the new, state-of-the-art Morrow-Garrison complex. The facility will feature comfortable classrooms and modern labs, along with well-equipped rehabilitation and training rooms.

### Career Opportunities

Upon graduating from the health studies program, students will be prepared for a variety of careers focusing on health, nutrition and wellness. Some career opportunities include: health administrator, health researcher, health insurance caseworker, epidemiologist, public health scientist/analyst, and many more.

The health studies program will also prepare students for graduate or professional training in the areas of physician's assistants, medical doctors, osteopathic doctors, dentists, chiropractors and more.

### For More Information

To learn more about majoring in Health Studies, contact the Department of Nutrition and Kinesiology at 660-543-4256, visit the web page at [www.ucmo.edu/nutrition](http://www.ucmo.edu/nutrition), or stop by our offices in North Morrow 100 & 125.

**Health Studies Major - Option 3 Community Health, B.S. Degree (43-03330)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry or CHEM 1131 General Chemistry I*	4-5	CHEM 1604 Elementary Organic and Biochemistry or CHEM 1132 General Chemistry II	4-5
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HED 1100 Personal Health or PHIL 2300 Ethics	3	MATH 1111 College Algebra	3
PSY 1100 General Psychology	3	SOC 1800 General Sociology	3
<b>Semester Total</b>	<b>13-14</b>	General Education	3
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>16-17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	BIOL 2402 Anatomy & Physiology II	4
D&N 3340 Nutrition	3	BIOL 3215 Medical Terminology	3
General Education	9	D&N 3350 Community Nutrition (Spring only)	3
<b>Semester Total</b>	<b>16</b>	General Education	6
		<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
HED 4310 Drugs & Youth	3	HED 4390 Community Health Education	2
HED 4370 Human Diseases	3	PSY 4440 Abnormal Psychology	3
General Education	2	Free Choice Electives***	10
Free Choice Electives***	7	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ICAP 4111 Socio-Economic Factors Impacting Health	3	NUR 2020 The Women's Perspective, NUR 4030 Human Sexuality, or NUR 4405 Aging of Self & Others	2
PSY 4520 Statistics for the Behavioral Sciences	3	SOC 4875 Medical Sociology	3
Free Choice Electives***	9	Free Choice Electives***	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Health Studies Major - Option 3 Community Health, B.S. Degree - 120 hours**

- \*Enrollment in CHEM 1131 requires a score of 17 on the mathematics section of the ACT, a score of 550 on the mathematics section of the SAT, a passing score on a mathematics examination approved by the School of Environmental, Physical, and Applied Sciences, or a grade of C or better in MATH 1111.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*The number of free choice electives required will vary depending on the CHEM set chosen. At least 1 hour of the free choice electives must be at the upper-level (3000/4000) to reach the 30 hour minimum required for graduation.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of History and Anthropology

# HISTORY

## BACHELOR OF ARTS DEGREE

The Department of History and Anthropology at the University of Central Missouri provides opportunities for students interested in studying the human experience, cultures, and civilization.

The Bachelor of Arts degree with a major in history prepares graduates for a wide variety of professional opportunities. These include teaching, law, government service, the diplomatic corps, journalism, tourism, and museum and archival work.

Study in anthropology opens additional doors. While some perceptions place anthropologists in ancient ruins of some remote land, much more common jobs have them working alongside business people, medical doctors and researchers, health care specialists and elected officials.

### About the Faculty

UCM's Department of History and Anthropology has a distinguished reputation. Its faculty is dedicated to the growth and professional development of their students, in addition to being actively involved in research, writing and public service. Faculty members have published many books and articles, participated in regional, national and international conferences, and received numerous grants and awards for study and research. In addition to their wide range of academic and professional experience, all members of the department's faculty have earned doctorates in their fields of expertise. UCM's 17-1 student-faculty ratio allows for personalized attention for each student.

### Student Involvement

Students are encouraged to supplement their academic programs through international study and participation in campus organizations of special professional, service and academic interest. The History and Anthropology Clubs provide opportunities for members to have personal and informal association with the department's faculty and other history and anthropology students outside the classroom.

Qualified students may also seek membership in Phi Alpha Theta, the national history honor society, which encourages excellence in the study of history.

### Special Facilities

UCM houses some extraordinary collections. History and anthropology faculty members are dedicated curators of the university's archives and museum, located in the James C. Kirkpatrick Library. In addition to the museum's many collections and other historical items on display, various exhibits are featured throughout the year for public inspection.

Students may also enhance their education through learning experiences at local facilities, such as Blind Boone Park, the Howard School, and Pertle Springs, and through international opportunities.

### Internships

Students have the opportunity to pursue internships that will enhance their knowledge skills and provide real world experiences. Interns have been placed at the Truman Library in Independence, Midwest Center for Holocaust Education, and at archives/museums in Jefferson City, Johnson County and Henry County, to name just a few.

### Scholarships

The Department of History and Anthropology presents Semester Achievement Awards to students who excel academically. Other scholarships available include the Demand Scholarship in history, A.E. Twomey Scholarship in history, and A.F. McClure Scholarship in archives.

### To Learn More

For more information write to the Department of History and Anthropology, Wood 136, UCM, Warrensburg, MO 64093, call 660-543-4404, or fax 660-543-4535.

For admission information, call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu) and the department's home page is [www.ucmo.edu/history](http://www.ucmo.edu/history).

**History Major, B.A. Degree (42-420)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> -Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HIST 1350 History of the United States to 1877	3	HIST 1351 History of the United States from 1877	3
Modern Language Requirement*	3	HIST 2402 History of Modern World	3
General Education	6	Modern Language Requirement*	3
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
HIST 2400 History of the Early World	3	HIST 2401 History of the Early Modern World	3
General Education	9	General Education	12
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
SOSC 3010 Writing in the Social Sciences	3	Upper-Level Elective in American History	3
Upper-Level Elective in American History	3	Upper-Level Elective in World History***	3
Free Choice Electives	9	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
Upper-Level Elective in World History***	6	IGEN 4231 Myth, Memories, & Realities	3
Upper-Level Elective in History	3	Free Choice Electives	12
Free Choice Electives	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**History Major, B.A. Degree - 120 hours**

- \*Refer to the Bachelor's Degree Requirements section of the Undergraduate Catalog for the B.A. Modern Language requirements. This plan is based on 9 hours of Modern Language.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of History and Anthropology

# HISTORY

## BACHELOR OF SCIENCE DEGREE

The Department of History and Anthropology at the University of Central Missouri provides opportunities for students interested in studying the human experience, cultures, and civilization.

The Bachelor of Science degree with a major in history prepares graduates for a wide variety of professional opportunities. These include teaching, law, government service, the diplomatic corps, journalism, tourism, and museum and archival work.

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### About the Faculty

UCM's Department of History and Anthropology has a distinguished reputation. Its faculty is dedicated to the growth and professional development of their students, in addition to being actively involved in research, writing and public service. Faculty members have published many books and articles, participated in regional, national and international conferences, and received numerous grants and awards for study and research. In addition to their wide range of academic and professional experience, all members of the department's faculty have earned

doctorates in their fields of expertise. Central Missouri's 17-1 student to faculty ratio allows for personalized attention for each student.

### Student Involvement

Students are encouraged to supplement their academic programs through international study and participation in campus organizations of special professional, service and academic interest. The History and Anthropology Clubs provide opportunities for members to have personal and informal association with the department's faculty and other history and anthropology students outside the classroom. Qualified students may also seek membership in Phi Alpha Theta, the national history honor society, which encourages excellence in the study of history.

### Special Facilities

UCM houses some extraordinary collections. History and anthropology faculty members are dedicated curators of the university's archives and museum, located in the James C. Kirkpatrick Library. In addition to the museum's many collections and other historical items on display, various exhibits are featured throughout the year for public inspection.

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### Internships

Students have the opportunity to pursue internships that will enhance their knowledge skills and provide real world experiences. Interns have been placed at the Truman Library in Independence, Midwest Center for Holocaust Education, and at archives/museums in Jefferson City, Johnson County and Henry County, to name just a few.

### Scholarships

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### To Learn More

For more information write to the Department of History and Anthropology, Wood 136, UCM, Warrensburg, MO 64093, call 660-543-4404, or fax 660-543-4535.

For admission information, call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu) and the department's home page is [www.ucmo.edu/history](http://www.ucmo.edu/history).

**History Major, B.S. Degree (43-421)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HIST 1350 History of the United States to 1877	3	HIST 1351 History of the United States from 1877	3
General Education	9	HIST 2402 History of Modern World	3
<b>Semester Total</b>	<b>15</b>	General Education	6
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
HIST 2400 History of the Early World	3	HIST 2401 History of the Early Modern World	3
General Education	12	General Education	6
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	6
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
SOSC 3010 Writing in the Social Sciences	3	Upper-Level Elective in American History	3
Upper-Level Elective in American History	3	Upper-Level Elective in World History**	3
Free Choice Electives	9	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
Upper-Level Elective in World History**	6	IGEN 4231 Myth, Memories, & Realities	3
Upper-Level Elective in History	3	Free Choice Electives	12
Free Choice Electives	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**History Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## Harmon College of Business and Professional Studies

Department of Management

# HOTEL AND RESTAURANT ADMINISTRATION

## BACHELOR OF SCIENCE DEGREE

University of Central Missouri's liberal arts tradition of broadly educating students for a global environment instills character and values required for responsible decision-making in personal and professional activities. The liberal arts core develops skills in communication, critical thinking, ethics, interpersonal relationships, leadership, and technology that are applied in the hospitality professional courses leading to the Bachelor of Science degree in hotel and restaurant administration.

This program is dedicated to providing a current and high quality education in preparing students for careers in the world's interdependent lodging, food service and related industries. The professional curriculum and co-curricular activities of the Harmon College of Business and Professional Studies support this objective by integrating technology, leadership, and practical experiences within the scope of its educational mission. The college also strives to obtain the resources necessary to maintain a leadership role in integrating technology across the curriculum.

### Internships

All students must complete at least 20 credit hours of coursework and attend a career planning seminar before completing the 360 hours of approved industry experience to graduate. Our placement rate is 100 percent with about 95 percent of our students working in their major. Major companies recruit on campus.

The placement outlook is outstanding. It is said to be the largest industry in the world and the first, second or third largest employer in more than 30 states. Government

employment projections predict that over the next 10 years management positions in lodging, food service, tourism, and recreation and sports will grow by twice the overall rate of employment growth in the economy.

Our students have done internships mainly in the summer semester in many states and some foreign countries. Students gain experience in such diverse areas as convention centers, sports arenas, travel companies, international hotel management companies, food beverage management in all kinds of settings, events and meeting planning, accounting, human resource management, car rental management, resort management, convention and visitors bureaus, hotel and restaurant development/ownership, and casino management.

### Hotel Internships

Major employers include Hyatt, Marriott, Drury Inn, Holiday Inn, Hilton, Fairmont, Disney and Aramark.

### Special Facilities

Our kitchen laboratory allows students to gain culinary management skills that are important in food and beverage management. Research opportunities exist in both the Quantity Foods Lab and Hospitality and Travel Marketing courses.

### Student Organizations

Students are encouraged to join the Hospitality Management Association. Many campus, professional, and community-focused activities involve our students, either through classes or attendance at major conferences and trade shows. For example, 10 students typically attend the International Hotel/Motel

and Restaurant Show in New York City that includes a tour/reception of the Waldorf-Astoria Hotel, a tour of the Statue of Liberty, a Broadway experience and other New York City experiential opportunities. Students also attend a hospitality symposium in February at Oklahoma State University and the National Restaurant Association Trade Show in Chicago.

### Career Opportunities

Students begin their career after graduation as front office assistant managers, restaurant managers, sales managers, food and beverage assistant managers, bar managers, executive housekeepers, human resource personnel, accounting personnel and resort development personnel.

### Department Scholarships

The department offers the Hospitality Management Association Undergraduate Scholarship. Various additional scholarship opportunities are available to our hospitality students based on need, academic achievement, and career aspirations.

### To Learn More

To learn more about majoring in Hotel and Restaurant Administration, contact the Department of Management at 660-543-4026, or visit our web page at [www.ucmo.edu/management](http://www.ucmo.edu/management) or stop by our office in Dockery 400.

**Hotel and Restaurant Administration Major, B.S. Degree (43-275)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	BTE 1210 Essentials of Managing Information or LIS 1600 University Library & Research Skills	2
HM 1800 Introduction to Hospitality (Fall only)	3	CHEM 1104 Introduction to the Sciences: Chemistry	4
General Education	9	ECON 1010 Principles of Macroeconomics	3
<b>Semester Total</b>	<b>15</b>	ENGL 1030 Composition II	3
AE 1400 Freshman Seminar*	1	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting	3	FOOD 3332 Quantity Food Production & Service	3
FOOD 2322 Food Preparation	3	General Education	12
HM 2830 Hotel-Restaurant Sanitation & Safety	2	<b>Semester Total</b>	<b>15</b>
General Education	6		
<b>Semester Total</b>	<b>14</b>		
<b>Summer Semester Following Junior Year</b>	<b>Hrs.</b>		
HM 4710 Internship**	3		
<b>Semester Total</b>	<b>3</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
FOOD 3333 Food Systems Management (Fall only)	3	HM 3844 Dining Room Management (Spring only)	3
HM 3800 Front Office Operations & Management (Fall only)	3	HRM 3920 Human Resource Management	3
HM 3850 Plant Operations & Management (Fall only)	2	TOUR 4720 Tourism Planning & Development (Spring only)	3
MGT 3315 Management of Organizations	3	Free Choice Electives	5
Free Choice Electives**	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>14</b>		
<b>Summer Semester Following Junior Year</b>	<b>Hrs.</b>		
HM 4710 Internship	5		
<b>Semester Total</b>	<b>5</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
HM 4720 Hospitality Technology (Fall only)	2	HM 3860 Beverage Management & Market. (Spring only)	3
HM 4800 Hotel & Restaurant Management	3	HM 4745 Senior Seminar (Spring only)	3
HM 4850 Hospitality Operations Analysis (Fall only)	3	HM 4840 Legal Aspects of Hotel Rest. Mgmt. (Spring only)	3
General Education (IGEN/ICAP)	3	TOUR 4730 Tourism Marketing (Spring only)	3
Free Choice Electives	3	Free Choice Electives	2
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>

**Hotel and Restaurant Administration Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This major requires 5 hours of internship (HM 4710), but the department recommends taking additional hours of internship. If this option is chosen, fewer hours of free choice electives will be needed.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# INTERIOR DESIGN

## BACHELOR OF FINE ARTS DEGREE

Interior design students at the University of Central Missouri learn and experience design from a creative faculty that is attuned to the contemporary issues within this broad field. Both aesthetic and technical experiences are studied in order to solve problems related to the function of interior environments and to enhance the health, safety, and welfare of the public.

Through a series of course assignments, the students will experience projects that will sharpen their visual, oral, and written skills in order to fulfill the design objectives as presented within each project.

Ultimately, the interior designer transforms spaces into unique living and working environments. Students in interior design will develop the basics of two- and three-dimensional design, color theory, drawing, drafting and computer-aided design. The interior design courses provide knowledge and skills in both residential and non-residential interiors. Additional courses in art and design history add historical significance to the evolution of design in contemporary society. In addition, areas of experience include universal design, sustainability, human behavior, furniture design, and business practices.

Through a partnership with the School of Technology, our students gain additional development in technical skills such as architectural drafting, building construction and computer-aided design. These areas of study, combined with the interior design and fine art curricula, allow the students to develop the necessary skills to enter the field with a well-prepared portfolio in order to achieve a successful career in interior design.

### About the Faculty

Faculty members in the interior design program are committed to each student's success within the major. Faculty members offer expertise and professional experience in lighting design, presentation styles, and residential and non-residential interior design. Students who are interested in special projects often work very closely and individually with members of the faculty to develop knowledge in specific areas of interior design.

### Student Involvement

In addition to the course of study, professional involvement and interaction is pursued through guest speakers, field trips and exposure to professional interior design organizations. The University of Central Missouri's student chapter of the Interior Design Student Association (IDSA) continues to be active in many of the professional events like Career Day. Throughout the year there are many opportunities for student recognition through school, regional and national design competitions.

Kansas City, only an hour's drive from campus, offers many resources for interior design students. Many interior design firms and suppliers welcome our students to tour, learn and gather resources, in an effort to mentor our students into the interior design field. Interior design internships are encouraged for upperclassmen and many times these internships result in permanent positions.

### Career Opportunities

Students who graduate from the program can look forward to several career options. Many of our students enter the field to become either residential or non-residential interior designers. Other areas of possible employment are hospitality design, showroom design, ecclesiastical design and health care design. Entrepreneurial students may even consult as interior designers and start their own firms. In related industries, a student could have a career as a manufacturer's sales representative or be employed in product design and development. With so much focus on residential interior design, through such avenues as magazines and network television shows, possible career options are constantly growing for students.

### Accreditation

UCM's Department of Art & Design is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state-supported school in Missouri with such accreditation. Of the approximately 2,000 college art programs nationwide, NASAD has approved less than 15 percent, based on proven rigor and content.

### For More Information

To learn more, write to the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Interior Design Major, B.F.A. Degree (47-261)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ENGL 1020 Composition I	3	ART 1800 Ideas & the Visual Arts	3
CADD 1105 Basic AutoCAD	1	ART 2310 Interior Design Studio I	3
CADD 1110 Fundamentals of Drafting	2	ENGL 1030 Composition II	3
General Education	3	CADD 2170 Introduction to Computer Aided Drafting	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 1825 Art History Survey II	3
ART 2320 Building Systems & Sustainability	3	ART 2340 Materials, Methods, and Specifications	3
ART 2335 Design III	3	ART 3310 Interior Design Studio II	3
ART 2511 Painting I or ART 3510 Watercolor	3	FAME 2442 Textiles	3
ART 3305 Interior Design Presentation Techniques	3	Major Elective**	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2412 Ceramics I or ART 2420 Sculpture I	3	ART 4340 Interior Design Studio IV	3
ART 3330 Interior Design Studio III	3	ART 4850 20th Century Art & Architecture or ART 4860 Contemporary Art & Design	3
ART 3340 Interior Detailing & Furniture Design	3	Major Elective**	3
ART 3800 History of Furniture & Interiors	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ART 4350 Interior Design Thesis I	3	ART 3320 Professional Practice for Interior Designers***	3
ICAP 4221 Artists in Contemporary Society	3	ART 4360 Interior Design Thesis II	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Interior Design Major, B.F.A. Degree - 128 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- \*\*Choose 6 hours of major electives from list of courses in the 2011 Undergraduate Catalog.
- \*\*\*ART 3320 Professional Practice for Interior Designers is only offered Spring semester of even numbered years (2010, 2012, etc.). Students planning to graduate in the Spring or Fall of odd numbered years should take ART 3320 during their Junior year and adjust their enrollment in general education classes to compensate.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities and Social Sciences

Department of Government, International Studies, and Languages

# INTERNATIONAL STUDIES

## BACHELOR OF ARTS DEGREE

The International Studies major in University of Central Missouri's Department of Government, International Studies, and Languages offers students a variety of career opportunities in governmental and non-governmental organizations, including the fields of business, law, communications, and tourism. The International Studies curriculum helps to create and reinforce a cross-cultural lens through which students are able to view and analyze the increasingly global community where we live and work. Additionally, courses provide students with the necessary tools to assess and follow global political, economic, and social trends that arise often in the midst of the complex intersection of historical events and cultural dynamics. The major offers a curriculum recognized by employers increasingly seeking candidates with strong analytical skills and the ability to evaluate and understand the impact of globalization on individuals and societies.

The graduate with a Bachelor of Arts degree in International Studies will use the knowledge and skills obtained in the program to:

- Develop an awareness of how the world's systems are interdependent and how local economic and social patterns have a global impact beyond their effect on individual lives.
- Understand and be able to analyze the critical topics in international affairs and global issues.
- Demonstrate knowledge of various social movements and organizations that have created and are creating goals and values that transcend national cultures and ideologies.

- Communicate program-specific knowledge effectively both verbally and in writing.

- Demonstrate the ability to communicate effectively at the intermediate level in a foreign language.

- Employ the discipline's theories, approaches, and methods in order to examine and understand past, present, and possible future international interactions.

### About the Faculty

International Studies courses are taught by experienced and dynamic faculty members who believe in individualized attention for their students. This personal approach is enhanced by UCM's 18 to 1 student-faculty ratio. Upon declaring a major in the Department of Government, International Studies, and Languages, students may request that a faculty adviser personally assist them in planning their program. In addition to a wide range of academic and professional experience, all of the department's faculty members have earned doctorates in their fields. Faculty members stay current with their profession through research, writing and participation in regional, national and international conferences.

### Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class and are offered in over 50 countries. All international studies majors must satisfy one of the following international experiences:

- a) Participate in a study abroad program approved by UCM;
- b) Participate in an international

internship approved by the International Studies Director and sponsored by a department at UCM;

- c) Participate in an international service learning program approved by the International Studies Director.

### Career Opportunities

Students who graduate from the program can look forward to several career options. Many of our students work with Federal and State Agencies, Foreign Service, State Department, International Organizations, Non-Governmental Organizations, and Multinational Corporations.

Other areas of possible employment include working as a Civil Servant, Diplomat, Translator, Trade Specialist, Peace Corps Officer, Human Rights Advocate, International Center Director, International Development or International Aid Officer, Policy Analyst, International Student Recruiter, International Student Advisor, Immigration Specialist, or Global Consultant.

### To Learn More

For more information, write to the Department of Government, International Studies, and Languages, Wood Building, Suite 5, UCM, Warrensburg, MO 64093; call 660-543-8948; e-mail Dr. Darlene Budd at [dbudd@ucmo.edu](mailto:dbudd@ucmo.edu); or visit the department's Web site at [www.ucmo.edu/politicalscience](http://www.ucmo.edu/politicalscience).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**International Studies Major, B.A. Degree (42-563)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
IS 1000 Introduction to International Studies	3	POLS 2520 Comparative Government and Politics	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
POLS 2530 International Relations	3	GEOG 2246 Economic Geography	3
Major Elective in a Geographic Specialization***	3	Major Elective in a Content Specialization#	3
Modern Language Requirement*	3	Major Elective in a Geographic Specialization***	3
General Education	6	Modern Language Requirement*	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
REL 3210 Comparative World Religions	3	Free Choice Electives## (Suggested Overseas Study, Internship or Service Learning experience)	15
SOC 3885 Globalization and the Future	3	<b>Semester Total</b>	<b>15</b>
Major Electives in a Content Specialization#	6		
General Education	3		
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ANTH 4870 Comparative Cultures	3	IS 4950 Senior Seminar	3
Major Elective in a Content Specialization#	3	General Education	6
General Education	9	Free Choice Electives	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**International Studies Major, B.A. Degree – 120 hours**

- \*See the current Undergraduate Catalog for B.A. Degree fulfillment options. This plan is based on 12 hours of modern foreign language. The number of free choice electives required will depend on modern language placement.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Students will choose six credit hours of Major Electives in a Geographic Specialization from one of the five Geographic Specialization areas (1 - African Studies, 2 - Asian Studies, 3 - European Studies, 4 - Latin American Studies, or 5 - Middle East Studies). See the Undergraduate Catalog for course selections.
- #Students will choose 12 credit hours of Major Electives in a Content Specialization Courses from one of the four content Specialization areas (1 - The Global Society and Culture, 2 - International Relations, Peace and Justice, 3 - International Political Economy and Policy Studies, or 4 - Human Development and the Physical Environment). A minimum of six credit hours of this 12 must be at the upper level (3000/4000). See the Undergraduate Catalog for course selections.
- ##Students in this major are required to complete an International Experience Requirement (1 - study abroad program, 2 - international internship, or 3 - international service learning program). The experience must be approved by the International Studies director.
- Students must earn 30 hours of upper level credits overall to meet graduation requirements. Make choices in the major electives and/or general education accordingly.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Management

AACSB Accredited

# MANAGEMENT

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

The Department of Management in the Harmon College of Business and Professional Studies (HCBPS) at UCM offers students educational experiences that will help them address the challenges of business in a wide variety of careers.

The Management Department offers a Bachelor of Science in Business Administration (BSBA) with a major in Management. We also offer a Management minor. The courses in the BSBA in Management major utilize a team-based experiential learning approach, rather than lecture, to help students understand both the theory and practice of management.

In the BSBA in Management major, our students will be given the opportunity to:

- Become more effective decision makers
- Organize activities to implement decisions
- Deliver effective oral presentations and written communications
- Lead others effectively
- Develop skills and attitudes required for life-long learning and serving others

### Qualified, Committed Faculty

We have highly qualified faculty with Ph.D.s and real business experience. Faculty are very committed to working with students to ensure their success. See our "How Your Management & Business Communication Faculty Can Help You" link [www.ucmo.edu/management/about/help.cfm](http://www.ucmo.edu/management/about/help.cfm).

### Team-Based, Experiential Learning Style of Instruction.

Faculty members prepare students to work effectively and efficiently in team environments.

### The Integrative Business Experience (IBE)

(<http://ibe.ucmo.edu>)

IBE classes create, operate, and execute start-up businesses (based on bank loans of up to \$5,000 per business) and manage hands-on service projects for non-profit organizations. In the last 5 ½ years, IBE teams have donated more than \$185,000 in profits to non-profit organizations and have completed service projects involving more than 6,000 hours for the community.

### Real-World Business Experience Internship Programs

Business majors participate in paid internships. The HCBPS Business Internship Center information is at <http://ucmo.edu/intern>.

### Business Organizations

The most popular clubs for management majors are SIFE and DECA which any UCM major may join. Student business organizations are at [www.ucmo.edu/orgrequest/orglist.cfm](http://www.ucmo.edu/orgrequest/orglist.cfm)

### AACSB Accredited Degree

All UCM business programs are accredited by the AACSB International ([www.aacsb.edu](http://www.aacsb.edu)).

### Employer interest in Management majors

Management is among the top 5 undergraduate majors targeted in the Midwest for college recruiting according to statistics from the National Association of Colleges and Employers (NACE) Job Outlook 2009.

**The UCM Career Services**  
web site is: [www.ucmo.edu/career](http://www.ucmo.edu/career).

### Management Major Employers

Service, government, banking, transportation services, agriculture, and products. You can find a full listing of hiring employers at [www.ucmo.edu/career/students/resources/stats.cfm](http://www.ucmo.edu/career/students/resources/stats.cfm)

### Online Information

Learn more about the management major on the departmental website at [www.ucmo.edu/management](http://www.ucmo.edu/management). A handbook for management majors is available online at <http://ucmo.edu/management/documents/handbook.pdf>.

### Central Summit Center

The BSBA in Management is also offered in Lee's Summit, MO. E-mail Dr. Chris Wright ([cwright@ucmo.edu](mailto:cwright@ucmo.edu)) for more information or go to <http://ucmconnect.ucmo.edu/p56646335/>.

### To Learn More

For more information write to the Harmon College of Business and Professional Studies, UCM, Warrensburg, MO 64093; call the Department of Management at 660-543-4026 or HCBPS at 660-543-4560.

For admission information, call 877-SAY-UCMO. Central Missouri's web address is [www.ucmo.edu](http://www.ucmo.edu).

**Management Major, B.S.B.A. Degree (46-268)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management*+	3	COMM 1000 Public Speaking	3
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics*	3
MATH 1111 College Algebra*	3	ENGL 1030 Composition II	3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 or BADM 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
ECON 1011 Principles of Microeconomics*	3	BLAW 2720 Legal Environment of Business*	3
FIN 2801 Business Statistics I*	3	General Education	9
General Education	7	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		
		<b>Note: Complete all BSBA Admission requirements and apply for admission.*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
FIN 3850 Principles of Finance	3	FIN 3801 Business Statistics II	3
<b>(IBE Block-below)**</b>		HRM 3920 Human Resource Management	3
CIS 3630 Management Information Systems***	3	MGT 3320 System, Teams, & Organizational Behavior	3
MGT 3315 Management of Organizations***	3	MGT 3325 Business Communications	3
MKT 3405 Marketing Policy***	3	MGT 3360 Production/Operations Management	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MGT 4310 Quality Systems	3	ICAP 4357 Organizational Policy & Strategy	3
MGT 4325 Management Communication	3	MGT 3345 International Management	1
MGT 4370 Supply Chain Management	3	MGT 4320 Leading & Managing Teams & Organizations	3
Free Choice Electives (internship recommended)	6	Free Choice Electives (internship recommended)	7
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Management Major, B.S.B.A. Degree - 120 Hours**

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- \*\*\***All Management majors must enroll in the IBE Block.** This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1605 or ACCT 2110, and junior standing.
- +CIS 1600 taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and CIS 1605 and will fulfill UCM's General Education Division II Area A Part II Technology requirement.
- A 2.25 cumulative GPA is required for graduation with in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## Harmon College of Business and Professional Studies

Department of Economics, Finance, and Marketing

AACSB Accredited

# MARKETING

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Marketing is the driving force behind the success of American business and industry. It provides the competitive edge that is so important to growth and prosperity in today's business world. That's why professionals who are skilled in identifying needs and promoting products and services to meet those needs are in high demand.

The marketing major prepares students for a wide variety of careers in business and industry. These opportunities include advertising, promotion, product and brand management, retail management, distribution, marketing research, sales, and sales management. Marketing professionals are involved from the conception and development of a product or service to the final sale and distribution to the customer.

### Admission

Students who enter Central Missouri to pursue a Bachelor of Science in Business Administration degree as freshmen should indicate a pre-business major at the time of first enrollment. Admission to the BSBA degree program is conditional upon the completion of prerequisites and grade point average requirements as specified in UCM's General Catalog. Marketing degree course requirements have been designed to give students a strong practical background in business and in the area of marketing. The program also provides a variety of electives, so students can develop greater competency in areas of particular interest.

### About the Faculty

Marketing classes are taught by experienced faculty members who believe in individualized attention for their students. Additionally, faculty members have significant experience in a variety of industries (retailing, small business and entrepreneur firms, etc.) that is used to help students understand current business practices. The faculty is involved in a variety of ventures and has developed a national reputation. The student-faculty ratio at Central Missouri is about 17 to 1, which allows for personalized attention. Faculty members increase student learning through active participation, case studies, presentations, group and individual projects, simulation and videotaping.

### Student Involvement

In addition to their coursework, students have the opportunity to become highly involved in a number of professional business organizations, including the student chapter of the American Marketing Association. These groups bring guest speakers to campus and sponsor trips to professional meetings and businesses in Kansas City and St. Louis. The organizations allow students to keep abreast of the latest developments in the field, initiate contacts with leading professionals, and develop leadership skills. Students are encouraged to further enhance their program through participation in internships and international study opportunities.

### Special Facilities

Outstanding library and computer facilities are available for student use at UCM. A large number of computers are available throughout campus for Harmon College of Business and Professional Studies student use. Excellent software is also available, and programming assistance may be obtained for special projects. Marketing classes are offered in the Ward Edwards Building. These facilities include the State Farm Sales Lab, a suite equipped for sales training and focus group research applications. Faculty offices for Central Missouri's Harmon College of Business and Professional Studies are housed in the historic Dockery Building.

### AACSB Accredited Degree

All UCM business programs are accredited by the AACSB International ([www.aacsb.edu](http://www.aacsb.edu)).

### To Learn More

For more information, write to the Department of Economics, Finance, and Marketing, UCM, Dockery Building, Warrensburg, MO 64093, call 660-543-8618 or visit the department's web pages.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Marketing Major, B.S.B.A. Degree (46-269)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CIS 1600 Business Information Management*+	3	COMM 1000 Public Speaking	3
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics*	3
MATH 1111 College Algebra*	3	ENGL 1030 Composition II	3
PSY 1100 Gen. Psychology or SOC 1800 Gen. Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
MKT 1400 Orientation to Marketing**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
ECON 1011 Principles of Microeconomics*	3	BLAW 2720 Legal Environment of Business*	3
FIN 2801 Business Statistics I*	3	General Education	9
General Education	7	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>	<b>Note: Complete all B.S.B.A. Admission requirements and apply for admission.*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CIS 3630 Management Information Systems#	3	MGT 3325 Business Communications	3
FIN 3801 Business Statistics II	3	MGT 3360 Production/Operations Management	3
FIN 3850 Principles of Finance	3	MKT 3430 Professional Sales	3
MGT 3315 Management of Organizations#	3	MKT 3480 Consumer Behavior	3
MKT 3405 Marketing Policy#	3	Marketing Major Elective***#	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MKT 4460 International Marketing	3	ICAP 4357 Organizational Policy & Strategy	3
MKT 4470 Marketing Research	3	MKT 4490 Marketing Management	3
Marketing Major Electives***	6	Marketing Major Electives***	6
Free Choice Electives	5	Free Choice Electives	4
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>16</b>

**Marketing Major, B.S.B.A. Degree - 124 Hours**

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- \*\*MKT 1400 is a free choice elective and is highly recommended for academic success. If MKT 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\* Marketing elective classes available are: MKT 1400, 3410, MKT 3420, MKT 3435, MKT 3440, MKT 3460, MKT 4420, MKT 4430, MKT 4440, MKT 4450. See Department Chair for advice on major electives.
- +CIS 1600 taken Fall 2010 through Summer 2012 may substitute for BTE 1210 and CIS 1605 and will fulfill UCM's General Education Division II Area A Part II Technology requirement.
- #Marketing majors may choose to enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1605 or ACCT 2110, and junior standing. If this option is chosen, the 3 hours of the practicum class will count towards the Marketing Major Electives hours.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# MATHEMATICS

## BACHELOR OF SCIENCE DEGREE

Skilled mathematicians, computer scientists, mathematics teachers and actuaries are needed today in virtually every corner of society. The University of Central Missouri's Department of Mathematics and Computer Science is meeting this expanding need with programs suited to student interests as well as society's demands.

The department offers a diverse curriculum, including courses in calculus, computer science, geometry, abstract algebra, statistics, actuarial science, and mathematics education. Students may begin the study of mathematics at a level equal to their background. Students with strong mathematics backgrounds may choose to begin with calculus. Others may choose to start with algebra or trigonometry.

### Computer Facilities

The mathematics and computer science programs are supported by a laboratory of networked PCs running Linux and Windows. Electronic mail, World Wide Web access, programming language compilers, and a variety of mathematical software are available. Laboratory access is available via the Internet.

A Mac computer laboratory supports teacher education programs in mathematics as well as projects and applications by other department majors and faculty.

### About the Faculty

Mathematics and computer science classes are taught by experienced and caring faculty members who believe in individualized attention for their students. The student-faculty ratio at Central Missouri is about 17 to 1, which allows for personalized attention for each student.

In addition to a wide range of academic and professional experience, more than 75 percent of the department's faculty members have earned doctorates. The remaining faculty members have master's degrees. Active research, workshops and seminar participation keep faculty members current with their expanding fields.

### Student Involvement

The Department of Mathematics and Computer Science sponsors several student organizations that meet regularly to discuss topics ranging from new discoveries to career opportunities.

Included are Kappa Mu Epsilon, a national honor society for mathematics students; the Association for Computing Machinery, which keeps students informed of changes in the department's and university's computer facilities; a student chapter of the Mathematical Association of America for students interested in recent developments in the mathematical

community; The Actuarial Organization, which provides students with career information about the actuarial profession; and the Central Missouri Math Educators, an organization which provides opportunities for prospective middle school and high school teachers to discuss methods and trends in teacher education with UCM faculty members and area public school teachers.

### Career Opportunities

The cognitive reasoning, organizational processes, and model-building structure of mathematics are skills that are in great demand in the physical, biological and social sciences, in commerce, government, industry, insurance and education. Well-qualified graduates entering this field can be assured that the variety of applications and opportunities in mathematics and computer science will continue to increase rapidly.

### To Learn More

For more information write to the Department of Mathematics and Computer Science, W.C. Morris 222, UCM, Warrensburg, MO 64093; call 660-543-4930; or visit the department's web pages, at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Mathematics Major, B.S. Degree (43-454)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CS 1100 Computer Programming I	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I	5	MATH 2410 Discrete Mathematics	3
General Education	3	General Education	4
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3710 Linear Algebra	3	MATH or CS Major Elective***	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 3311 Introduction to Mathematical Statistics**	3	MATH 4710 Algebraic Structures II**	3
MATH 3720 Algebraic Structures I**	2	MATH or CS Major Elective***	3
General Education	11	Free Choice Electives	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 4150 Advanced Calculus I**	3	ICAP 4233 The Sci., Historical, & Sociological Impact of	3
Free Choice Electives	12	MATH or CS Major Elective***	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>

**Mathematics Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- \*\*\*Choose nine hours of Major Electives from list in Undergraduate Catalog. Upper level electives (3000/4000) are strongly encouraged to help in meeting the 30 hours minimum required for graduation.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# MATHEMATICS

## ACCELERATED BACHELOR OF SCIENCE DEGREE TO MASTERS OF SCIENCE DEGREE

Skilled mathematicians, computer scientists, mathematics teachers and actuaries are needed today in virtually every corner of society. The University of Central Missouri's Department of Mathematics and Computer Science is meeting this expanding need with programs suited to student interests as well as society's demands.

The department offers a diverse curriculum, including courses in calculus, computer science, geometry, abstract algebra, statistics, actuarial science, and mathematics education. Students may begin the study of mathematics at a level equal to their background. Students with strong mathematics backgrounds may choose to begin with calculus. Others may choose to start with algebra or trigonometry.

### Computer Facilities

The mathematics and computer science programs are supported by a laboratory of networked PCs running Linux and Windows. Electronic mail, World Wide Web access, programming language compilers, and a variety of mathematical software are available. Laboratory access is available via the Internet.

A Mac computer laboratory supports teacher education programs in mathematics as well as projects and applications by other department majors and faculty.

### About the Faculty

Mathematics and computer science classes are taught by experienced and caring faculty members who believe in individualized attention for their students. The student-faculty ratio at Central Missouri is about 17 to 1, which allows for personalized attention for each student.

In addition to a wide range of academic and professional experience, more than 75 percent of the department's faculty members have earned doctorates. The remaining faculty members have master's degrees. Active research, workshops and seminar participation keep faculty members current with their expanding fields.

### Student Involvement

The Department of Mathematics and Computer Science sponsors several student organizations that meet regularly to discuss topics ranging from new discoveries to career opportunities.

Included are Kappa Mu Epsilon, a national honor society for mathematics students; the Association for Computing Machinery, which keeps students informed of changes in the department's and university's computer facilities; a student chapter of the Mathematical Association of America for students interested in recent developments in the mathematical

community; The Actuarial Organization, which provides students with career information about the actuarial profession; and the Central Missouri Math Educators, an organization which provides opportunities for prospective middle school and high school teachers to discuss methods and trends in teacher education with UCM faculty members and area public school teachers.

### Career Opportunities

The cognitive reasoning, organizational processes, and model-building structure of mathematics are skills that are in great demand in the physical, biological and social sciences, in commerce, government, industry, insurance and education. Well-qualified graduates entering this field can be assured that the variety of applications and opportunities in mathematics and computer science will continue to increase rapidly.

### To Learn More

For more information write to the Department of Mathematics and Computer Science, W.C. Morris 222, UCM, Warrensburg, MO 64093; call 660-543-4930; or visit the department's web pages, at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Mathematics Major, Accelerated B.S. Degree to M.S. Degree (43-454)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CS 1100 Computer Programming I	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I	5	MATH 2410 Discrete Mathematics	3
General Education	3	General Education	4
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3710 Linear Algebra	3	MATH or CS Major Elective***	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 3311 Introduction to Mathematical Statistics**	3	MATH 4710 Algebraic Structures II**	2
MATH 3720 Algebraic Structures I**	2	MATH or CS Major Elective***	3
General Education	11	Free Choice Electives	10
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 4150 Advanced Calculus I**	3	ICAP 4233 The Sci., Historical, & Sociological Impact of Math**	3
Free Choice Electives	12	MATH or CS Major Elective***	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>

**Mathematics Major, Accelerated B.S. Degree to M.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- \*\*\*Choose nine hours of Major Electives from list in Undergraduate Catalog. Upper level electives (3000/4000) are strongly encouraged to help in meeting the 30 hours minimum required for graduation.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Mathematics and Computer Science

# MATHEMATICS

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

The University of Central Missouri's Bachelor of Science in Education degree program with a major in mathematics leads to certification to teach high school mathematics in Missouri. Certification may also be transferable to other states, depending on their requirements.

All teacher education programs at UCM are accredited by the National Council for Accreditation of Teacher Education and by the Missouri Department of Elementary and Secondary Education. This degree also provides a foundation for graduate work in mathematics.

Skilled mathematicians, computer scientists, mathematics teachers and actuaries are needed today in virtually every corner of society. The Department of Mathematics and Computer Science at UCM is meeting this expanding need with programs suited to student interests as well as society's demands.

The Department of Mathematics and Computer Science offers a diverse curriculum, including courses in calculus, computer science, geometry, abstract algebra, statistics, actuarial science, and mathematics education. Students may begin the study of mathematics at a level equal to their background. Students with strong mathematics backgrounds may choose to begin with calculus. Others may choose to start with algebra or trigonometry.

### Computer Facilities

A Mac computer laboratory provides mathematics education students access to a variety of mathematical software. In addition, all mathematics and computer science programs are supported by a laboratory of networked PC's running

Linux and Windows. Electronic mail, World Wide Web access, and programming compilers are available as well.

### About the Faculty

Mathematics education, mathematics, and computer science courses are taught by experienced and caring faculty members who believe in individualized attention for their students. The student-faculty ratio at the University of Central Missouri is about 17 to 1, which allows for personalized attention for each student.

The mathematics education faculty all have public school teaching experience and regularly publish in national journals, conduct scholarly research, present at state and national conferences, lead workshops in the public schools, fill leadership roles in state and national organizations, and seek and implement grants. In addition to a wide range of academic and professional experience, more than 75 percent of the mathematics and computer science faculty members have earned doctorates and all other faculty members have master's degrees.

### Student Involvement

The Department of Mathematics and Computer Science sponsors several student organizations that meet regularly to discuss topics ranging from new discoveries to career opportunities.

The Central Missouri Mathematics Educators organization provides opportunities for preservice middle and high school mathematics teachers to discuss methods and trends in teacher education with UCM faculty area public school teachers.

Other organizations include Kappa Mu Epsilon, a national honor society for mathematics students; the Association for Computing Machinery which keeps students informed of changes in the department's and university's computer facilities; a student chapter of the Mathematical Association of America for students interested in recent developments in the mathematical community; and the Actuarial Organization which provides students with career information about the actuarial profession.

### Career Opportunities

The current shortage of secondary mathematics teachers means that job opportunities for mathematics education students are abundant. Graduates of the mathematics education program at UCM are well-prepared mathematically and pedagogically to be effective high school mathematics teachers. In addition, the cognitive reasoning, organizational processes, and model-building structure of mathematics are skills that are in great demand in the physical, biological and social sciences, in commerce, industry, and insurance.

### To Learn More

For more information write to the Department of Mathematics and Computer Science, W.C. Morris 222, UCM, Warrensburg, MO 64093; call 660-543-4930; or visit the department's web pages, at [www.ucmo.edu/math-cs](http://www.ucmo.edu/math-cs).

For admission information, call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Mathematics Major, B.S. in Ed. Degree (41-459)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CS 1100 Computer Programming I	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>HIST 1350 or 1351 History of the United States</i></b>	3
<b>MATH 1151 Calculus &amp; Analytic Geometry I</b>	5	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1850 Orientation Seminar*	.5	MATH 2410 Discrete Mathematics	3
General Education	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>14.5</b>		
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
EDFL 2100 Foundations of Education	2	MATH 4851 Prob. & Statistics for Mid./High School Math*	3
EDFL 2240 Educational Psychology	3	POLS 1510 American Government	3
FLDX 2150 Introductory Field Experience	1	General Education	9
MATH 2221 Foundations of Geometry*	3	<b>Semester Total</b>	<b>15</b>
MATH 3710 Linear Algebra	3		
<b><i>General Education Science w/lab***</i></b>	4		
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MATH 3850 Strategies in Teaching Secondary Math*	3	EDFL 4210 Teaching Reading in Secondary	2
MATH 4710 Algebraic Structures*	3	EDSP 2100 Education of the Exceptional Child or	
PSY 4230 Adolescent Psychology	3	PSY 4200 Psychology of the Exceptional Child	2
General Education	8	ICAP 4233 The Scientific, Historical, Soc. Impact of Math*	3
<b>Semester Total</b>	<b>17</b>	MATH 4861 Advanced Perspectives on HS Mathematics*	3
		General Education	3
		Free Choice Elective	3
		<b>Semester Total</b>	<b>16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs.</b>
EDFL 3500 Secondary Teaching & Behavior Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
EDFL 4300 Educational Measurement & Evaluation	2	MATH 4820 Secondary Field Experience II	1
Free Choice Electives	9.5	MATH 4870 Methods of Teaching Math	2
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>12</b>

**Mathematics Major, B.S. in Ed. Degree - 120 hours**

- \*This course is only offered during the semester indicated.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Students pursuing a B.S. in Ed. must take a biology prefix.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.



## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# MEDICAL TECHNOLOGY

## BACHELOR OF SCIENCE DEGREE

Medical Technology offers exciting educational and career opportunities for students wishing to combine an interest in the sciences with laboratory medicine. As vital members of the health care team, medical technologists perform diagnostic laboratory tests used to prevent, diagnose, and treat disease.

Technologists have diverse career opportunities in hospital, university, government, and industrial laboratories. They represent the upper division of medical laboratory personnel and can pursue challenging positions in laboratory administration, specialized research, technical services, marketing, or education. Graduates are qualified to enter graduate programs leading to master's and doctoral degrees. Medical technology is a very good choice of undergraduate major for those interested in professional school because it provides an excellent foundation in diagnostic medicine.

The practice of modern medicine

would not be possible without the tests performed in clinical laboratories. Medical technologists perform and supervise tests on blood, tissue, and body fluids, using precision instruments such as microscopes and automated, computerized analyzers. They also establish and monitor quality control programs, which ensure the precision and accuracy of both the instruments and the laboratory staff. They are able to recognize interdependency of tests and have knowledge of physiological conditions affecting test results. These skills are necessary in order to provide correct data which is used by the physician in determining the presence, extent, and as far as possible, the cause of disease. The medical technologist is also knowledgeable in all areas of the laboratory and are able to perform all routine and specialized procedures, as well as assuming supervisory and teaching positions.

Classroom learning is reinforced

in most courses through practical laboratory experiences. A new Molecular Science Research Lab and Animal Research Facility allows use of molecular techniques in courses and new courses in biotechnology.

Before admission to the medical technology training program at Central's affiliated hospitals, a student must first earn a minimum of 94 semester hours of college credit. After a satisfactory completion of the training program, students are awarded a degree and are eligible and expected to take the national certification examination.

### To Learn More

For more information, write to the Department of Nutrition and Kinesiology, UCM, Warrensburg, MO 64093, or call 660-543-4256.

For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu).

**Medical Technology, B.S. Degree (43-384)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 2512 Cell Biology	3
BIOL 1110 Principles of Biology or BIOL 1112 Animal Biology	3-4	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I	5	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	General Education	5
MATH 1111 College Algebra	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15-16</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 2401 Anatomy & Physiology I	4	BIOL 2402 Anatomy & Physiology II	4
BIOL 2511 Genetics	4	CHEM 3341 Organic Chemistry I	4
General Education	9	MATH 1300 Basic Stat. or PSY 4520 Stat. for Behavioral Sciences	3
<b>Semester Total</b>	<b>17</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology	4	BIOL 3413 Immunology	3
BIOL 4000 Biology Colloquium	1	BIOL 4516 Hematology/Virology	3
BIOL 4311 Parasitology	4	CHEM 3421 Intermediate Biochemistry	3
BIOL 4514 Molecular Biology	3	ICAP 4222 The Biological Perspectives	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Senior Year - Summer Semester</b>	<b>Hrs</b>		
BIOL 4015 Clinical Immunohematology	4		
BIOL 4016 Clinical Urinalysis	2		
<b>Semester Total</b>	<b>6</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4017 Clinical Microbiology	7	BIOL 4019 Clinical Biochemistry	7
BIOL 4018 Clinical Immunology	5	BIOL 4020 Clinical Hematology	4
<b>Semester Total</b>	<b>12</b>	BIOL 4021 Clinical Special Topics	1
		<b>Semester Total</b>	<b>12</b>

**Medical Technology, B.S. Degree - 128-129 hours**

- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Education

Department of Educational Foundations and Literacy

# MIDDLE SCHOOL - JUNIOR HIGH SCHOOL

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

Students who plan to teach at the middle school level have a program designed especially to prepare them for teaching students in grades five through nine. This program is designed to meet national and state standards, including two teaching areas and a beneficial sequence of field experiences. The Bachelor of Science in Education degree, with a major in middle school-junior high school education, certifies graduates to teach language arts in grades five through nine and selected minors in grades pre-kindergarten through nine or five through nine.

According to the Missouri Department of Elementary and Secondary Education (DESE), UCM is "one of the premier teacher education institutions in the state," and has a reputation for preparing some of the finest teachers in the classroom today. Full accreditation by the National Council for Accreditation of Teacher Education (NCATE) and DESE provides further verification of high quality. Central Missouri's programs meet all Missouri certification requirements.

UCM's teacher education program prepares teachers to be competent, caring, reflective practitioners committed to the premise that all can learn. Graduates are well grounded in general, major, and professional knowledge and skills that are guided by performance standards and assessments, including development of reflective decision-making skills. Program expectations have been derived from consultation with practitioners and review of recommendations of appropriate professional groups.

### Clinical Experiences

Pre-service teachers complete a series of field experiences in the sophomore, junior, and senior years. Their junior and senior years, they participate in professional development school experiences that are co-designed and taught by school practitioners and university faculty. The culminating experience is student teaching.

### International Opportunities

Students in the Department of Educational Foundations and Literacy may choose to participate in several international study experiences. A semester in Sweden gives students an excellent introduction to education in this country. Students may also participate in the full range of international study opportunities offered by the Office of International Programs.

### About the Faculty

Department middle school faculty members all have public school teaching experience and are qualified teachers who engage regularly in a number of school-based programs, conduct in-service workshops and present papers at international, national and state conferences. Middle school faculty serve as advisors on several Missouri Department of Elementary and Secondary Education committees

### Student Involvement

Membership in the Student Missouri State Teachers Association is available to all education students. Specialized organizations, the Student Reading Council of the International Reading Association, Association for Childhood Education International, and the Collegiate Middle Level

Association, provide aspiring teachers with practical career and professional information. UCM also has a chapter of Kappa Delta Pi, a national honorary fraternity. In addition, Leading Educator Advocates for Diversity and the Latino Student Union attract diverse students to the teaching profession.

### Teacher Education Admission

Candidates seeking an initial teaching certificate who meet departmental requirements are admitted to the teacher education program when they have completed 48 semester hours of college credit. After completing 90 hours and meeting additional requirements, students are admitted to the professional education semester and the student teaching portion of the program.

UCM's Middle School program is designed to develop each student's knowledge and skills in teaching the middle level learner. Students are systematically placed in diverse middle school field experiences to acquire the experience necessary for a successful career in teaching.

### To Learn More

For more information, write to the Department of Educational Foundations and Literacy, UCM, Lovinger 3155, Warrensburg, MO 64093; call 660-543-4235; or visit [www.ucmo.edu/edfl](http://www.ucmo.edu/edfl).

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's web address is [www.ucmo.edu](http://www.ucmo.edu).

**Middle School Education Major, B.S. in Ed. Degree (41-840)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>POLS 1510 American Government</i></b>	3	HIST 1350 or 1351 History of the United States.	3
Modern Language	3	<b><i>MATH 1620 Contemporary Math</i></b>	3
General Education	6	<b><i>General Education Science w/lab</i></b>	4
<b>Semester Total</b>	<b>15</b>	General Education (Technology)	2-3
		<b>Semester Total</b>	<b>15-16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECEL 1310 or 1320 Science for Teachers Requirement	3	EDFL 3210 Methods of Reading Instruction	3
ECEL 2310 Computer/Technology in Education	2	ENGL 2200, 2205, 2210, 2215, or 2220	3
EDFL 2100 Foundations of Education	2	GEOG 2212 World Geography	3
FLDX 2150 Introductory Field Experience	1	MATH 3812 Math. in the Integrated MS Cur.* (spring only)	3
EDFL 2240 Education Psychology	3	Teaching Minor	6
EDSP 2100 Education of Exceptional Child or		<b>Semester Total</b>	<b>18</b>
PSY 4200 Psychology of Exceptional Child	2		
Teaching Minor	3		
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ECEL 2110 World Diversity & America	3	EDFL 3230 Content Literacy in Middle Schools (spring only)	3
ECEL 3220 The Teaching of Language Arts	3	EDFL 4135 Appl. Assess. Strat. to the Middle Level Learner	
EDFL 3440 Literature for the Middle Level (fall only)	2	(spring only)	3
EDFL 4130 The Middle School (fall only)	3	IGEN 3468 Home/School/Community Relations	3
EDFL 4300 Educational Measurement & Evaluation	2	PSY 4230 Psychology of Adolescence	3
Teaching Minor	3	Teaching Minor	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>18</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs.</b>
EDFL 4220 Analysis & Correction Reading Disability	2	FLDX 4497 Student Teaching Middle School I	6
EDFL 4250 Practicum in Reading	1	FLDX 4498 Student Teaching Middle School II	6
EDFL 4340 Teaching Strategies in Middle School (fall only)	3	<b>Semester Total</b>	<b>12</b>
HED 4310 Drugs & Youth	3		
Special Methods Class for Minor Area	2-3		
Teaching Minor	3		
<b>Semester Total</b>	<b>14-17</b>		

**Middle School Education Major, B.S. in Ed. Degree - 124 hours**

- \*Students selecting a math minor will enroll in MATH 1800 and 2802 instead of MATH 3812 and must contact the math faculty advisor or academic advisor before enrolling.\*\*
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A teaching minor is an area of concentration for which UCM sponsors certification. These include: Art, Business Teacher Education, English, Family and Consumer Sciences, Instructional Technology, Math, Modern Languages, Science, Social Studies, Speech Communication and Theatre, and Technology Education. These range in hours from 21 to 27. The above plan is based on a 21-credit-hour area of concentration.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# MODERN LANGUAGES

## AREA 1: LANGUAGE AND CULTURE, BACHELOR OF ARTS DEGREE

Thinking about a language major or minor? Consider this: a language major or minor will make you more competitive on the job market. Indeed, studying a language gives you a skill set that is widely applicable and pairs ideally with virtually any course of study as a second major or minor. A second language can be of great professional value in fields such as criminal justice, education, social work, business, medicine, sciences, engineering, computing, music, art, law, public relations, politics, tourism, and technology.

Studying a language gives you solid preparation for understanding and dealing with an entirely new culture—a skill that is increasingly important in today's global society. Proficiency in foreign languages and an understanding of other cultures tells a potential employer that you are flexible in learning and thinking, and it can put you in a position to travel or complete an international internship or scholarship. If you plan to continue on in higher education, second language proficiency is a desirable asset in many graduate programs.

### Curriculum

The Modern Languages Major requires 36 hours of course work beyond the elementary sequence in French, German or Spanish. It is not necessary to formally declare which language you wish to study, but all course work must be in the same language. While there are no specific course requirements, prerequisites dictate that some classes that must be taken in sequence. These vary by language, so it is important to consult with a Modern

Languages faculty member for advising and degree planning.

Students majoring in Modern Languages must choose one of two Areas: Language and Culture, or Professional Applications. The Language and Culture Area includes only the 36-hour major; no minor is required. The Professional Applications Area requires an additional 30-hour Concentration in one of five career-training fields: Marketing, Criminal Justice, Education, Hospitality Management, or Public Relations. These optional Concentrations each include a hands-on internship or practicum. Advisors will work with students to help them pursue internships that provide the opportunity to use second language skills in a professional setting. A variety of courses is available to students in either track, including conversation, business, composition, film, literature, and culture classes.

### Study Abroad

Study abroad is an important component of learning a second language. All majors and minors are strongly encouraged to include study abroad in their programs. Most students in French and German, who wish to graduate in four years, will need to study abroad. Currently, UCM offers opportunities to study in many Spanish, German and French speaking countries during the summer, fall, spring, or entire academic year. Financial aid can be applied to UCM-sponsored programs, and additional financial assistance for studying abroad may be available from the International Center.

### Student Activities

Students can enhance their academic and cultural experience by

participating in a variety of Modern Languages Club activities: "Day of the Dead Celebration", "Foreign Flicks", "Fondue Night", "Kaffeestuden", "International Food Day" and "Tabla de conversación". There are also other activities geared toward helping students improve their language skills: 1) advanced level students volunteer to tutor students at the beginning level and, 2) international students work as conversation group leaders to help our French, German and Spanish students improve their speaking skills.

### Program Delivery

The latest and best instructional technology and methods are used. Courses in each language cover basic skills, conversation, civilization, contemporary life and literature. Students are able to practice their skills in a state-of-the-art computerized language laboratory. Many resources offered to students can be accessed from any Internet-connected computer.

### Financial Assistance

Employment in the language laboratory is available on a competitive basis to modern language students. Two endowed scholarships in Spanish also are available.

### For More Information

To learn more write to the Department of Government, International Studies, and Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at [www.ucmo.edu/modlang](http://www.ucmo.edu/modlang). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Modern Languages Major - Area 1: Language and Culture, B.A. Degree (42-574)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	9
General Education	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
3000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
3000/4000 level course (FREN, GER, or SPAN)*	3	Free Choice Electives	9
Free Choice Electives	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
4000 level course (FREN, GER, or SPAN)*	3	4000 level course (FREN, GER, or SPAN)*	3
Free Choice Electives	9	General Education (IGEN/ICAP)	3
<b>Semester Total</b>	<b>12</b>	Free Choice Electives	6
		<b>Semester Total</b>	<b>12</b>

**Modern Languages Major - Area 1: Language and Culture, B.A. Degree - 120 hours (114 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)**

- \*All 36 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# MODERN LANGUAGES

## AREA 2: PROFESSIONAL APPLICATIONS - MARKETING CONCENTRATION, BACHELOR OF ARTS DEGREE

Thinking about a language major or minor? Consider this: a language major or minor will make you more competitive on the job market. Indeed, studying a language gives you a skill set that is widely applicable and pairs ideally with virtually any course of study as a second major or minor. A second language can be of great professional value in fields such as criminal justice, education, social work, business, medicine, sciences, engineering, computing, music, art, law, public relations, politics, tourism, and technology.

Studying a language gives you solid preparation for understanding and dealing with an entirely new culture—a skill that is increasingly important in today's global society. Proficiency in foreign languages and an understanding of other cultures tells a potential employer that you are flexible in learning and thinking, and it can put you in a position to travel or complete an international internship or scholarship. If you plan to continue on in higher education, second language proficiency is a desirable asset in many graduate programs.

### Curriculum

The Modern Languages Major requires 36 hours of course work beyond the elementary sequence in French, German or Spanish. It is not necessary to formally declare which language you wish to study, but all course work must be in the same language. While there are no specific course requirements, prerequisites dictate that some classes that must be taken in sequence. These vary by language, so it is important to consult with a Modern

Languages faculty member for advising and degree planning.

Students majoring in Modern Languages must choose one of two Areas: Language and Culture, or Professional Applications. The Language and Culture Area includes only the 36-hour major; no minor is required. The Professional Applications Area requires an additional 30-hour Concentration in one of five career-training fields: Marketing, Criminal Justice, Education, Hospitality Management, or Public Relations. These optional Concentrations each include a hands-on internship or practicum. Advisors will work with students to help them pursue internships that provide the opportunity to use second language skills in a professional setting. A variety of courses is available to students in either track, including conversation, business, composition, film, literature, and culture classes.

### Study Abroad

Study abroad is an important component of learning a second language. All majors and minors are strongly encouraged to include study abroad in their programs. Most students in French and German, who wish to graduate in four years, will need to study abroad. Currently, UCM offers opportunities to study in many Spanish, German and French speaking countries during the summer, fall, spring, or entire academic year. Financial aid can be applied to UCM-sponsored programs, and additional financial assistance for studying abroad may be available from the International Center.

### Student Activities

Students can enhance their academic and cultural experience by

participating in a variety of Modern Languages Club activities: "Day of the Dead Celebration", "Foreign Flicks", "Fondue Night", "Kaffeestuden", "International Food Day" and "Tabla de conversación". There are also other activities geared toward helping students improve their language skills: 1) advanced level students volunteer to tutor students at the beginning level and, 2) international students work as conversation group leaders to help our French, German and Spanish students improve their speaking skills.

### Program Delivery

The latest and best instructional technology and methods are used. Courses in each language cover basic skills, conversation, civilization, contemporary life and literature. Students are able to practice their skills in a state-of-the-art computerized language laboratory. Many resources offered to students can be accessed from any Internet-connected computer.

### Financial Assistance

Employment in the language laboratory is available on a competitive basis to modern language students. Two endowed scholarships in Spanish also are available.

### For More Information

To learn more write to the Department of Government, International Studies, and Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at [www.ucmo.edu/modlang](http://www.ucmo.edu/modlang). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Modern Languages Major - Area 2: Prof. Apps. - Marketing Concentration, B.A. Degree (42-574)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> -Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ECON 1010 Principles of Macroeconomics	3
Intermediate I (FREN, GER, or SPAN)*+	3	ENGL 1030 Composition II	3
General Education	9	Intermediate II (FREN, GER, or SPAN)*	3
<b>Semester Total</b>	<b>15</b>	General Education	6
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
2000/3000 level course (FREN, GER, or SPAN)*	3	BLAW 2720 Legal Environment of Business	3
3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
General Education	9	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
MKT 3405 Marketing Policy	3	MGT 3315 Management of Organizations	3
3000 level course (FREN, GER, or SPAN)*	3	MKT 3430 Professional Sales	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>12</b>		

<b>Summer bt. Junior &amp; Senior Year</b> - Summer Semester	<b>Hrs.</b>
MKT 3435 Internship in Marketing	6
<b>Semester Total</b>	<b>6</b>

<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
MKT 3410 Retail Management, MKT 3420 Principles of Advertising, or MKT 3460 Advanced Professional Sales	3	MKT 4460 International Marketing	3
MKT 3480 Consumer Behavior	3	ML 4050 Language in the Professions/Translation	3
4000 level course (FREN, GER, or SPAN)*	3	General Education (IGEN/ICAP)	3
Free Choice Elective	3	Free Choice Electives	3
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12</b>

**Modern Languages Major - Area 2: Professional Applications - Marketing Concentration, B.A. Degree - 120 hours**

(114 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# MODERN LANGUAGES

## AREA 2: PROFESSIONAL APPLICATIONS - CRIMINAL JUSTICE CONCENTRATION, BACHELOR OF ARTS DEGREE

Thinking about a language major or minor? Consider this: a language major or minor will make you more competitive on the job market. Indeed, studying a language gives you a skill set that is widely applicable and pairs ideally with virtually any course of study as a second major or minor. A second language can be of great professional value in fields such as criminal justice, education, social work, business, medicine, sciences, engineering, computing, music, art, law, public relations, politics, tourism, and technology.

Studying a language gives you solid preparation for understanding and dealing with an entirely new culture—a skill that is increasingly important in today's global society. Proficiency in foreign languages and an understanding of other cultures tells a potential employer that you are flexible in learning and thinking, and it can put you in a position to travel or complete an international internship or scholarship. If you plan to continue on in higher education, second language proficiency is a desirable asset in many graduate programs.

### Curriculum

The Modern Languages Major requires 36 hours of course work beyond the elementary sequence in French, German or Spanish. It is not necessary to formally declare which language you wish to study, but all course work must be in the same language. While there are no specific course requirements, prerequisites dictate that some classes that must be taken in sequence. These vary by language, so it is important to consult with a Modern

Languages faculty member for advising and degree planning.

Students majoring in Modern Languages must choose one of two Areas: Language and Culture, or Professional Applications. The Language and Culture Area includes only the 36-hour major; no minor is required. The Professional Applications Area requires an additional 30-hour Concentration in one of five career-training fields: Marketing, Criminal Justice, Education, Hospitality Management, or Public Relations. These optional Concentrations each include a hands-on internship or practicum. Advisors will work with students to help them pursue internships that provide the opportunity to use second language skills in a professional setting. A variety of courses is available to students in either track, including conversation, business, composition, film, literature, and culture classes.

### Study Abroad

Study abroad is an important component of learning a second language. All majors and minors are strongly encouraged to include study abroad in their programs. Most students in French and German, who wish to graduate in four years, will need to study abroad. Currently, UCM offers opportunities to study in many Spanish, German and French speaking countries during the summer, fall, spring, or entire academic year. Financial aid can be applied to UCM-sponsored programs, and additional financial assistance for studying abroad may be available from the International Center.

### Student Activities

Students can enhance their academic and cultural experience by

participating in a variety of Modern Languages Club activities: "Day of the Dead Celebration", "Foreign Flicks", "Fondue Night", "Kaffeestuden", "International Food Day" and "Tabla de conversación". There are also other activities geared toward helping students improve their language skills: 1) advanced level students volunteer to tutor students at the beginning level and, 2) international students work as conversation group leaders to help our French, German and Spanish students improve their speaking skills.

### Program Delivery

The latest and best instructional technology and methods are used. Courses in each language cover basic skills, conversation, civilization, contemporary life and literature. Students are able to practice their skills in a state-of-the-art computerized language laboratory. Many resources offered to students can be accessed from any Internet-connected computer.

### Financial Assistance

Employment in the language laboratory is available on a competitive basis to modern language students. Two endowed scholarships in Spanish also are available.

### For More Information

To learn more write to the Department of Government, International Studies, and Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at [www.ucmo.edu/modlang](http://www.ucmo.edu/modlang). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Modern Languages Major - Area 2: Prof. Apps. - Criminal Justice Conc., B.A. Degree (42-574)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
CJ 1000 Introduction to Criminal Justice	3	CJ 2315 The Criminal Court System	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CJ 3006 Corrections	3	CJ 3010 Policing a Democratic Society	3
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CJ 3020 Comparative Justice Systems	3	CJ Elective	3
3000 level course (FREN, GER, or SPAN)*	3	SOC 3890 Criminology	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	6	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		
<b>Summer bt. Junior &amp; Senior Year - Summer Semester</b>	<b>Hrs.</b>		
CJ 4602 Internship in Criminal Justice	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CJ Electives	6	ML 4050 Language in the Professions/Translation	3
4000 level course (FREN, GER, or SPAN)*	3	General Education (IGEN/ICAP)	3
General Education	3	Free Choice Electives	6
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12</b>

**Modern Languages Major - Area 2: Professional Applications - Criminal Justice Concentration, B.A. Degree - 120 hours (114 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)**

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# MODERN LANGUAGES

## AREA 2: PROFESSIONAL APPLICATIONS - HOSPITALITY MGMT. CONCENTRATION, BACHELOR OF ARTS DEGREE

Thinking about a language major or minor? Consider this: a language major or minor will make you more competitive on the job market. Indeed, studying a language gives you a skill set that is widely applicable and pairs ideally with virtually any course of study as a second major or minor. A second language can be of great professional value in fields such as criminal justice, education, social work, business, medicine, sciences, engineering, computing, music, art, law, public relations, politics, tourism, and technology.

Studying a language gives you solid preparation for understanding and dealing with an entirely new culture—a skill that is increasingly important in today's global society. Proficiency in foreign languages and an understanding of other cultures tells a potential employer that you are flexible in learning and thinking, and it can put you in a position to travel or complete an international internship or scholarship. If you plan to continue on in higher education, second language proficiency is a desirable asset in many graduate programs.

### Curriculum

The Modern Languages Major requires 36 hours of course work beyond the elementary sequence in French, German or Spanish. It is not necessary to formally declare which language you wish to study, but all course work must be in the same language. While there are no specific course requirements, prerequisites dictate that some classes that must be taken in sequence. These vary by language, so it is important to consult with a Modern

Languages faculty member for advising and degree planning.

Students majoring in Modern Languages must choose one of two Areas: Language and Culture, or Professional Applications. The Language and Culture Area includes only the 36-hour major; no minor is required. The Professional Applications Area requires an additional 30-hour Concentration in one of five career-training fields: Marketing, Criminal Justice, Education, Hospitality Management, or Public Relations. These optional Concentrations each include a hands-on internship or practicum. Advisors will work with students to help them pursue internships that provide the opportunity to use second language skills in a professional setting. A variety of courses is available to students in either track, including conversation, business, composition, film, literature, and culture classes.

### Study Abroad

Study abroad is an important component of learning a second language. All majors and minors are strongly encouraged to include study abroad in their programs. Most students in French and German, who wish to graduate in four years, will need to study abroad. Currently, UCM offers opportunities to study in many Spanish, German and French speaking countries during the summer, fall, spring, or entire academic year. Financial aid can be applied to UCM-sponsored programs, and additional financial assistance for studying abroad may be available from the International Center.

### Student Activities

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### Program Delivery

The latest and best instructional technology and methods are used. Courses in each language cover basic skills, conversation, civilization, contemporary life and literature. Students are able to practice their skills in a state-of-the-art computerized language laboratory. Many resources offered to students can be accessed from any Internet-connected computer.

### Financial Assistance

Employment in the language laboratory is available on a competitive basis to modern language students. Two endowed scholarships in Spanish also are available.

### For More Information

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**Modern Languages Major - Area 2: Prof. Apps. - Hospitality Mgmt. Conc., B.A. Degree (42-574)**

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<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> -Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HM 1800 Introduction to Hospitality (Fall only)	3	Intermediate II (FREN, GER, or SPAN)*	3
Intermediate I (FREN, GER, or SPAN)*+	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
ACCT 2100 Survey of Accounting	3	HM 2830 Hotel-Restaurant Sanitation & Safety	2
2000/3000 level course (FREN, GER, or SPAN)*	3	HM 3860 Beverage Management & Market. (Spring only)	3
3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
FOOD 3333 Food Systems Management (Fall only)	3	HM 4800 Hotel & Restaurant Management	3
3000 level course (FREN, GER, or SPAN)*	3	MGT 3315 Management of Organizations	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12</b>
<b>Summer bt. Junior &amp; Senior Year</b> - Summer Semester	<b>Hrs.</b>		
HM 4710 Internship	4		
<b>Semester Total</b>	<b>4</b>		
<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
HM 4850 Hospitality Operations Analysis (Fall only)	3	HM 4840 Legal Aspects of Hotel Rest. Mgmt. (Spring only)	3
4000 level course (FREN, GER, or SPAN)*	3	ML 4050 Language in the Professions/Translation	3
Free Choice Electives	6	4000 level courses (FREN, GER, or SPAN)*	3
<b>Semester Total</b>	<b>12</b>	General Education (IGEN/ICAP)	3
		<b>Semester Total</b>	<b>12</b>

**Modern Languages Major - Area 2: Professional Applications - Hospitality Management Concentration, B.A. Degree - 120 hours (114 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)**

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
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## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# MODERN LANGUAGES

## AREA 2: PROFESSIONAL APPLICATIONS - PUBLIC RELATIONS CONCENTRATION, BACHELOR OF ARTS DEGREE

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### Curriculum

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### Study Abroad

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### Program Delivery

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### Financial Assistance

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**Modern Languages Major - Area 2: Prof. Apps. - Public Relations Conc., B.A. Degree (42-574)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
COMM 2620 Introduction to Public Relations	3	COMM 2625 Writing & Editing for Public Relations	3
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
COMM 3620 Strategic Planning for Public Relations	3	COMM 3010 Interpersonal Communication	3
3000 level course (FREN, GER, or SPAN)*	3	COMM 4680 Publicity	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	3	<b>Semester Total</b>	<b>12</b>
Free Choice Elective	3		
<b>Semester Total</b>	<b>15</b>		
<b>Summer bt. Junior &amp; Senior Year - Summer Semester</b>	<b>Hrs.</b>		
HM 4710 Internship	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
COMM 3100 Communication Research Methods	3	ML 4050 Language in the Professions/Translation	3
COMM 3340 Intercultural Communication	3	4000 level courses (FREN, GER, or SPAN)*	3
COMM 4670 Strategic Crisis Communication	3	General Education (IGEN/ICAP)	3
POLS 4520 Principles of International Development	3	Free Choice Elective	3
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12</b>

**Modern Languages Major - Area 2: Professional Applications - Public Relations Concentration, B.A. Degree - 120 hours**  
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- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
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## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# MODERN LANGUAGES

AREA 2: PROFESSIONAL APPLICATIONS - EDUCATION CONCENTRATION (K-12 CERT.), BACHELOR OF ARTS DEGREE

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**Modern Languages Major - Area 2: Prof. Apps. - Educ. Conc. (K-12 Cert.), B.A. Degree (42-574)**

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<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>POLS 1510 American Government</b>	3	<b>HIST 1350 or 1351 History of the United States</b>	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
<b>General Education Science w/lab**</b>	4	<b>General Education Math</b>	3
General Education (technology)	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
EDFL 2100 Foundations of Education	2	3000 level courses (FREN, GER, or SPAN)*	6
FLDX 2150 Introductory Field Experience	1	General Education	9
EDFL 2240 Educational Psychology	3	<b>Semester Total</b>	<b>15</b>
2000/3000 level course (FREN, GER, or SPAN)*	3		
3000 level course (FREN, GER, or SPAN)*	3		
General Education	3		
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
3000 level course (FREN, GER, or SPAN)*	3	CD 2000 The Bases of Speech and Language	2
4000 level course (FREN, GER, or SPAN)*	3	EDFL 4210 Teaching of Reading in Secondary	2
General Education	3	EDFL 4300 Educational Measurement & Evaluation	2
Free Choice Electives	6	PSY 4200 Psychology of Exceptional Children or	
<b>Semester Total</b>	<b>15</b>	EDSP 2100 Education of the Exceptional Child	2
		4000 level courses (FREN, GER, or SPAN)*	6
		<b>Semester Total</b>	<b>14</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
EDFL 3500 Secondary Teaching & Behavior Management	3	FLDX 4495 Student Teaching Elementary I	8
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
ML 4054 Methods of Teaching Foreign Language	3	<b>Semester Total</b>	<b>12</b>
PSY 4230 Adolescent Psychology	3		
4000 level course (FREN, GER, or SPAN)*	3		
<b>Semester Total</b>	<b>13</b>		

**Modern Languages Major - Area 2: Professional Applications - Education Concentration (K-12 Certification), B.A. Degree 120 hours (114 hours taken on campus plus six hours of "validated credit" or "dual credit".)**

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\* Students pursuing the Education Concentration must complete a biology prefix.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.



## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC

## BACHELOR OF ARTS DEGREE

The Bachelor of Arts in Music degree is designed for students who wish to pursue a liberal arts degree or across-discipline, individualized programs, such as music business. Music programs at UCM offer a balanced curriculum of classroom studies and practical experiences. Music is an essential part of the academic, social and cultural life at UCM. Each year more than 100 student and faculty recitals, concerts and other musical performances delight campus audiences and provide academic experiences for students.

### About the Faculty

Music courses at UCM are taught by experienced, caring faculty members who offer specialized instruction in diverse music disciplines. Twenty of the department's 22 full-time faculty members have doctoral degrees, and all teach beginning and advanced classes. Their busy schedules include solo and ensemble recitals, master classes, workshops, and adjudication. In addition, music faculty members are often engaged in scholarly activities that include book projects and articles for professional journals.

### Accreditation

The Department of Music is fully accredited by the National Association of Schools of Music.

### Career Opportunities

UCM has been successful in placing graduates in prestigious teaching, performing and other music-related careers. Central Missouri alumni include the concertmaster of a major symphony orchestra, a member of the U.S. Navy Sea Chanters, a vocal soloist with the New York Philharmonic Orchestra, winners of national

composition contests and highly successful educators.

### Financial Assistance

The Department of Music's Achievement Awards, Service Awards and Music Foundation Scholarships are awarded based on ability and willingness to participate in ensembles. Foundation Scholarships and Achievement Awards are reserved primarily for music majors and minors. Service Awards are available to all students. Auditions are held in November, on Presidents Day weekend each February, or by appointment.

### Performing Groups

The Marching Mules perform at all home football games and for the Kansas City Chiefs. Members receive a Service Award. The Symphonic Wind Ensemble and Symphonic Band fulfill the needs of students participating in music as an avocation and those preparing for a career. Small ensembles include two jazz bands, Percussion Ensemble, Trombone Choir, Tuba/Euphonium Ensemble, Jazz-Rock Combo and brass and woodwind quintets.

The orchestra program provides a solid foundation for students who are pursuing careers as college professors, high school and elementary music teachers, members of professional symphony orchestras and concert artists. The University Symphony Orchestra plays four concerts each year and recently performed at the Missouri Music Educators Conference. Chamber music opportunities include string quartet playing with coaching by members of the faculty.

Voice and choral students who take private lessons have many opportunities to perform at recitals and competitions. The Opera Workshop stages both full

productions and programs of opera scenes. The University Concert Choir has appeared on national television and toured extensively in the U.S. and abroad. The Collegiate Choir combines with the University Concert Choir annually to perform a major oratorio with the orchestra as well as presenting campus concerts. The Chamber Singers and barbershop quartets round out choral offerings.

Keyboard students refine their skills through private lessons, studio classes, weekly student recitals and evening solo and ensemble recitals. There are many opportunities for accompanying and participating in an annual concerto contest.

### Curriculum

Theory and music history courses provide insights into the music of the past and present. The first two years of theory stress building a good foundation in ear training and understanding patterns and grouping of sounds to improve creativity, performance and teaching ability. Advanced courses in form and analysis, counterpoint, composition and instrumentation are taught by specialists in those areas. Composition courses explore 20th century techniques. Students receive instruction and studio time in well-equipped electronic music facilities. A well-equipped recording studio provides practical experience for music technology students.

### To Learn More

For more information, write to the Department of Music, UCM, Warrensburg, MO 64093, or call 660-543-4530. For admission information, call 877-SAY-UCMO (877-729-8266). The department's home page address is [www.ucmo.edu/music](http://www.ucmo.edu/music).

**Music Major, B.A. Degree (42-436)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 1225 Music of the World's Cultures	3	MUS 1121 Aural Training I*	1
Major Instrument or Voice, 1000 Level	1	Major Instrument or Voice, 1000 Level	1
Major Large Ensemble	1	Major Large Ensemble	1
Modern Language Requirement**	3	Modern Language Requirement**	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>3</b>
AE 1400 Freshman Seminar***	1		<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 2220 World Masterpieces**	3	MUS 1000 Recital Attendance	0
MUS 1000 Recital Attendance	0	MUS 2111 Theory III*	3
MUS 1112 Theory II*	3	MUS 2121 Aural Training III*	1
MUS 1122 Aural Training II*	1	MUS 2222 Introduction to Music Literature II*	2
MUS 2221 Introduction to Music Literature I*	2	Major Instrument or Voice, 1000 Level	1
Major Instrument or Voice, 1000 Level	1	Minor Coursework	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 3211 Music History to 1800*	3	MUS 3212 Music History 1800-Present*	3
Major Instrument or Voice, 3000 Level	1.5	Major Instrument or Voice, 3000 Level	1.5
Minor Coursework	6	Minor Coursework	6
General Education	6	General Education	6
<b>Semester Total</b>	<b>16.5</b>	<b>Semester Total</b>	<b>16.5</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
Major Instrument or Voice, 3000 Level	1.5	Major Instrument or Voice, 3000 Level	1.5
Elective in Music	3	Minor Coursework	3
Minor Coursework	3	General Education (IGEN/ICAP)	3
Free Choice Electives	8	Free Choice Electives	7
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>14.5</b>

**Music Major, B.A. Degree - 124 hours**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on two modern language courses and ENGL 2220 for General Education Literature.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- This plan is based on a 21-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 1 INSTRUMENTAL)

## BACHELOR OF MUSIC DEGREE

The Bachelor of Music degree with a major in music allows students to select an emphasis in performance, piano pedagogy, jazz-commercial music or music technology. Music programs at UCM offer a balanced curriculum of classroom studies and practical experiences. Music is an essential part of the academic, social and cultural life at UCM. Each year more than 100 student and faculty recitals, concerts and other musical performances delight campus audiences and provide academic experiences for students.

### About the Faculty

Music courses at UCM are taught by experienced, caring faculty members who offer specialized instruction in diverse music disciplines. Twenty of the department's 22 full-time faculty members have doctoral degrees, and all teach beginning and advanced classes. Their busy schedules include solo and ensemble recitals, master classes, workshops, and adjudication. In addition, music faculty members are often engaged in scholarly activities that include book projects and articles for professional journals.

### Accreditation

The Department of Music is fully accredited by the National Association of Schools of Music.

### Career Opportunities

UCM has been successful in placing graduates in prestigious teaching, performing and other music-related careers. Central Missouri alumni include the concertmaster of a major symphony orchestra, a member of the U.S. Navy Sea Chanters, a vocal soloist with the New York Philharmonic Orchestra, winners of national

composition contests and highly successful educators.

### Financial Assistance

The Department of Music's Achievement Awards, Service Awards and Music Foundation Scholarships are awarded based on ability and willingness to participate in ensembles. Foundation Scholarships and Achievement Awards are reserved primarily for music majors and minors. Service Awards are available to all students. Auditions are held in November, on Presidents Day weekend each February, or by appointment.

### Performing Groups

The Marching Mules perform at all home football games and for the Kansas City Chiefs. Members receive a Service Award. The Symphonic Wind Ensemble and Symphonic Band fulfill the needs of students participating in music as an avocation and those preparing for a career. Small ensembles include two jazz bands, Percussion Ensemble, Trombone Choir, Tuba/Euphonium Ensemble, Jazz-Rock Combo and brass and woodwind quintets.

The orchestra program provides a solid foundation for students who are pursuing careers as college professors, high school and elementary music teachers, members of professional symphony orchestras and concert artists. The University Symphony Orchestra plays four concerts each year and recently performed at the Missouri Music Educators Conference. Chamber music opportunities include string quartet playing with coaching by members of the faculty.

Voice and choral students who take private lessons have many opportunities to perform at recitals and competitions. The Opera Workshop stages both full

productions and programs of opera scenes. The University Concert Choir has appeared on national television and toured extensively in the U.S. and abroad. The Collegiate Choir combines with the University Concert Choir annually to perform a major oratorio with the orchestra as well as presenting campus concerts. The Chamber Singers and barbershop quartets round out choral offerings.

Keyboard students refine their skills through private lessons, studio classes, weekly student recitals and evening solo and ensemble recitals. There are many opportunities for accompanying and participating in an annual concerto contest.

### Curriculum

Theory and music history courses provide insights into the music of the past and present. The first two years of theory stress building a good foundation in ear training and understanding patterns and grouping of sounds to improve creativity, performance and teaching ability. Advanced courses in form and analysis, counterpoint, composition and instrumentation are taught by specialists in those areas. Composition courses explore 20th century techniques. Students receive instruction and studio time in well-equipped electronic music facilities. A well-equipped recording studio provides practical experience for music technology students.

### To Learn More

For more information, write to the Department of Music, UCM, Warrensburg, MO 64093, or call 660-543-4530. For admission information, call 877-SAY-UCMO (877-729-8266). The department's home page address is [www.ucmo.edu/music](http://www.ucmo.edu/music).

**Music Major (Area 1 Instrumental), B.M. Degree (44-01472)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 2221 Introduction to Music Literature I*	2	MUS 1121 Aural Training I*	1
Major Instrument, 1000 Level	2	MUS 1225 Music of the World's Cultures	3
Major Large Instrument Ensemble (Piano Class I)**	1	MUS 2222 Introduction to Music Literature II*	2
General Education	(1)	Major Instrument, 1000 Level	2
	3	Major Large Instrument Ensemble (Piano Class II)**	1
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>(1)</b>
			<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 2111 Theory III*	3
MUS 1122 Aural Training II*	1	MUS 2121 Aural Training III*	1
MUS 2300 Fundamentals of Conducting*	2	MUS Electives	1
Instrumental Music Elective	1	Instrumental Music Elective	1
Major Instrument, 1000 Level	2	Major Instrument, 1000 Level	2
Major Large Instrument Ensemble (Piano Class III)**	1	Major Large Instrument Ensemble (Piano Class IV)**	1
General Education	(1)	General Education	(1)
	6		6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 3060 Junior Recital	1
MUS 2122 Aural Training IV*	1	MUS 3212 Music History 1800-Present*	3
MUS 3211 Music History to 1800*	3	MUS Electives	3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	Major Instrument, 3000 Level	3
MUS Required Elective***	3	Major Large Instrument Ensemble	1
Major Instrument, 3000 Level	3	General Education	6
Major Large Instrument Ensemble	1	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>17</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped.	2	MUS 4060 Senior Recital	2
MUS Electives	3	Major Instrument, 3000 Level	3
Major Instrument, 3000 Level	3	MUS Electives	3
Small Instrumental Ensemble	1	Small Instrumental Ensemble	1
General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	6-9	General Education	6
<b>Semester Total</b>	<b>15-18</b>	<b>Semester Total</b>	<b>15</b>

**Music Major (Area 1 Instrumental), B.M. Degree - 124 hours**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- \*\*\*For the MUS Required Elective choose among the following three courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only), MUS 4115 Instrumentation (offered spring semester), or MUS 4185 Jazz-Commercial Arranging (offered spring semester of odd numbered years only).
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 1 INSTRUMENTAL) (This plan for 2012 not 2011)

## BACHELOR OF MUSIC DEGREE

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**Music Major (Area 1 Instrumental), B.M. Degree (44-01472)**

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<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
ENGL 1020 Composition I		3	ENGL 1030 Composition II		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 2221 Introduction to Music Literature I*		2	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		2	MUS 1225 Music of the World's Cultures		3
Major Large Instrument Ensemble (Piano Class I)**		1	MUS 2222 Introduction to Music Literature II*		2
General Education		(1)	Major Instrument, 1000 Level		2
		3	Major Large Instrument Ensemble (Piano Class II)**		1
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>(1)</b>
					<b>15</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1112 Theory II*		3	MUS 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 2300 Fundamentals of Conducting* Instrumental Music Elective		2	MUS Electives		1
Major Instrument, 1000 Level		1	Instrumental Music Elective		1
Major Large Instrument Ensemble (Piano Class III)**		2	Major Instrument, 1000 Level		2
General Education		1	Major Large Instrument Ensemble (Piano Class IV)**		1
		(1)	General Education		(1)
		6			6
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>15</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3060 Junior Recital		1
MUS 2122 Aural Training IV*		1	MUS 3212 Music History 1800-Present*		3
MUS 3211 Music History to 1800*		3	MUS Electives		3
MUS Required Elective***		3	Major Instrument, 3000 Level		3
Major Instrument, 3000 Level		3	Major Large Instrument Ensemble		1
Major Large Instrument Ensemble		1	General Education		6
General Education		3			
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>17</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital		2
MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped.		2	Major Instrument, 3000 Level		3
MUS Electives		3	MUS Electives		3
Major Instrument, 3000 Level		3	Small Instrumental Ensemble		1
Small Instrumental Ensemble		1	General Education		6
General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6			
<b>Semester Total</b>		<b>15-18</b>	<b>Semester Total</b>		<b>15</b>

**Music Major (Area 1 Instrumental), B.M. Degree - 124 hours**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- \*\*\*For the MUS Required Elective choose among the following three courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only), MUS 4115 Instrumentation (offered spring semester), or MUS 4185 Jazz-Commercial Arranging (offered spring semester of odd numbered years only).
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 2 JAZZ-COMMERCIAL MUSIC)

## BACHELOR OF MUSIC DEGREE

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### Financial Assistance

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### To Learn More

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**Music Major (Area 2 Jazz-Commercial Music), B.M. Degree (44-02472)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1085 Jazz-Rock Combo	1	MUS 1111 Theory I*	3
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1121 Aural Training I*	1
Major Large Jazz Ensemble	1	MUS 1281 History & Development of Jazz*	3
Major Instrument, 1000 Level	2	Major Instrument, 1000 Level	2
(Piano Class I)**	(1)	Major Large Jazz Ensemble	1
General Education	6	Major Large Non-Jazz Ensemble	1
<b>Semester Total</b>	<b>16</b>	(Piano Class II)**	(1)
		General Education	3
		<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 2111 Theory III*	3
MUS 1122 Aural Training II*	1	MUS 2121 Aural Training III*	1
MUS 1225 Music of the World's Cultures	3	MUS 2141 Composition I	3
MUS 2180 Jazz Improvisation I*	2	MUS 2181 Jazz Improvisation II*	2
MUS 2300 Fundamentals of Conducting*	2	Major Large Jazz Ensemble	1
Major Large Jazz Ensemble	1	Major Instrument, 1000 Level	2
Major Instrument, 1000 Level	2	(Piano Class IV)**	(1)
Major Large Non-Jazz Ensemble	1	General Education	3
(Piano Class III)**	(1)	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 1085 Jazz-Rock Combo	1
MUS 2122 Aural Training IV*	1	MUS 3060 Junior Recital	1
MUS 3211 Music History to 1800*	3	MUS 3212 Music History 1800-Present*	3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	Major Large Jazz Ensemble	1
Major Large Jazz Ensemble	1	Major Instrument, 3000 Level	3
Major Instrument, 3000 Level	3	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***	2	MUS 4060 Senior Recital	2
MUS electives	2	MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years)	3
Major Instrument, 3000 Level	3	Major Instrument, 3000 Level	3
General Education	9	General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	6-9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14-17</b>
<b>Fifth Year - Fall Semester</b>	<b>Hrs.</b>		
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***	2		
<b>Semester Total</b>	<b>2</b>		

**Music Major (Area 2 Jazz-Commercial Music), B.M. Degree - 124**

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- \*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- \*\*\*This course requires the prerequisite of MUS 4185. If chosen, adjust schedule to take after 4185. This course is only offered as needed by the department. See department for projected course offerings.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 2 JAZZ-COMMERCIAL MUSIC)

(THIS PLAN FOR  
2012 NOT 2011)

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ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1085 Jazz-Rock Combo	1	MUS 1111 Theory I*	3
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1121 Aural Training I*	1
Major Large Jazz Ensemble	1	MUS 1281 History & Development of Jazz*	3
Major Instrument, 1000 Level	2	Major Instrument, 1000 Level	2
(Piano Class I)**	(1)	Major Large Jazz Ensemble	1
General Education	6	Major Large Non-Jazz Ensemble	1
<b>Semester Total</b>	<b>16</b>	(Piano Class II)**	(1)
		General Education	3
		<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 2111 Theory III*	3
MUS 1122 Aural Training II*	1	MUS 2121 Aural Training III*	1
MUS 1225 Music of the World's Cultures	3	MUS 2141 Composition I	3
MUS 2180 Jazz Improvisation I*	2	MUS 2181 Jazz Improvisation II*	2
MUS 2300 Fundamentals of Conducting*	2	Major Large Jazz Ensemble	1
Major Large Jazz Ensemble	1	Major Instrument, 1000 Level	2
Major Instrument, 1000 Level	2	(Piano Class IV)**	(1)
Major Large Non-Jazz Ensemble	1	General Education	3
(Piano Class III)**	(1)	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 1085 Jazz-Rock Combo	1
MUS 2122 Aural Training IV*	1	MUS 3060 Junior Recital	1
MUS 3211 Music History to 1800*	3	MUS 3212 Music History 1800-Present*	3
Major Large Jazz Ensemble	1	MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years)	3
Major Instrument, 3000 Level	3	Major Large Jazz Ensemble	1
General Education	6	Major Instrument, 3000 Level	3
<b>Semester Total</b>	<b>17</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 4060 Senior Recital	2
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***	2	MUS 4181 Advanced Jazz Improvisation (fall only) or MUS 4186 Advanced Jazz-Commercial Arranging***	2
MUS electives	2	Major Instrument, 3000 Level	3
Major Instrument, 3000 Level	3	General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	6-9
General Education	6	<b>Semester Total</b>	<b>13-16</b>
<b>Semester Total</b>	<b>16</b>		

**Music Major (Area 2 Jazz-Commercial Music), B.M. Degree - 124**

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## College of Arts, Humanities, and Social Sciences

Department of Music

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ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I	3
Electronics or Computer Programming Elective (Choose from CS 1000, ET 1010, or ET 1020)	3-4	MUS 1121 Aural Training I*	1
Introductory Music Technology Elective**	.5	MUS 1225 Music of the World's Cultures	3
Introductory Music Technology Elective**	.5	Introductory Music Technology Elective**	.5
Major Instrument or Voice, 1000 Level	1	Introductory Music Technology Elective**	.5
Major Large Instrumental or Vocal Ensemble (Piano Class I)***	1 (1)	Major Instrument or Voice, 1000 Level	1
General Education	3	Major Large Instrumental or Vocal Ensemble (Piano Class II)***	1 (1)
<b>Semester Total</b>	<b>15-17</b>	General Education	3
		<b>Semester Total</b>	<b>16-17</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	MUS 1000 Recital Attendance	0
MUS 1000 Recital Attendance	0	MUS 2111 Theory III*	3
MUS 1112 Theory II*	3	MUS 2121 Aural Training III*	1
MUS 1122 Aural Training II*	1	MUS 2410 Music Technology II*	4
MUS 2400 Music Technology I*	4	MUS 2420 Technology Practicum	0
MUS 2420 Technology Practicum	0	Major Instrument or Voice, 1000 Level	1
Major Instrument or Voice, 1000 Level	1	Major Large Instrumental or Vocal Ensemble (Piano Class IV)***	1 (1)
Major Large Instrumental or Vocal Ensemble (Piano Class III)***	1 (1)	General Education	6
General Education	3	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>16-17</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 3212 Music History 1800-Present*	3
MUS 2122 Aural Training IV*	1	MUS 4115 Instrumentation*	3
MUS 2300 Fundamentals of Conducting*	2	MUS 4400 Music Technology IV*	5
MUS 3211 Music History to 1800*	3	MUS 4420 Advanced Music Technology Practicum	0
MUS 3400 Music Technology III*	5	Approved Electives in Music#	3
MUS 4420 Advanced Music Technology Practicum	0	<b>Semester Total</b>	<b>14</b>
MUS 4040 Music Business Practices*	3		
<b>Semester Total</b>	<b>17</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	Music Academic & Technology Studies Elective##	3
Approved Electives in Music#	3	General Education	9
Music Academic & Technology Studies Elective##	3	Free Choice Electives (may not be needed if MUS 1100 or Piano is required)	0-2
General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	6-9	<b>Semester Total</b>	<b>12-14</b>
<b>Semester Total</b>	<b>12-15</b>		
		<b>After Junior or Senior Year - Summer Semester</b>	<b>Hrs.</b>
		MUS 4450 Internship in Music Technology	6
		<b>Semester Total</b>	<b>6</b>

**Music Major (Area 3 Music Technology), B.M. Degree - 124**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Choose 2 hours of Introductory Music Technology Electives. Each course is worth .5 credit hours and all 2 hours must be completed during the freshman year. Choose four courses from the following five: MUS 1400, 1410, 1420, 1430, and/or 1440. Students may also choose to do 1.5 hours in the fall semester and .5 hours in the spring semester, as three of the courses are fall only and two of the courses are spring only.
- \*\*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- #This major area requires six hours of Approved Electives in Music. MUS 1100 and MUS 1210 will not fulfill this requirement. See the department for appropriate course choices.
- ##This major area requires six hours of Music Academic & Technology Studies Electives. Choose from MUS 3141, 4000, 4101, 4125, 4185, or 4190.
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 3 MUSIC TECHNOLOGY)

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### To Learn More

For more information, write to the Department of Music, UCM, Warrensburg, MO 64093, or call 660-543-4530. For admission information, call 877-SAY-UCMO (877-729-8266). The department's home page address is [www.ucmo.edu/music](http://www.ucmo.edu/music).

**Music Major (Area 3 Music Technology), B.M. Degree (44-03472)**

This guide is valid for the 2012 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I	3
Electronics or Computer Programming Elective (Choose from CS 1000, ET 1010, or ET 1020)	3-4	MUS 1121 Aural Training I*	1
Introductory Music Technology Elective**	.5	MUS 1225 Music of the World's Cultures	3
Introductory Music Technology Elective**	.5	Introductory Music Technology Elective**	.5
Major Instrument or Voice, 1000 Level	1	Introductory Music Technology Elective**	.5
Major Large Instrumental or Vocal Ensemble (Piano Class I)***	1 (1)	Major Instrument or Voice, 1000 Level	1
General Education	3	Major Large Instrumental or Vocal Ensemble (Piano Class II)***	1 (1)
<b>Semester Total</b>	<b>15-17</b>	General Education	3
		<b>Semester Total</b>	<b>16-17</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	MUS 1000 Recital Attendance	0
MUS 1000 Recital Attendance	0	MUS 2111 Theory III*	3
MUS 1112 Theory II*	3	MUS 2121 Aural Training III*	1
MUS 1122 Aural Training II*	1	MUS 2410 Music Technology II*	4
MUS 2400 Music Technology I*	4	MUS 2420 Technology Practicum	0
MUS 2420 Technology Practicum	0	Major Instrument or Voice, 1000 Level	1
Major Instrument or Voice, 1000 Level	1	Major Large Instrumental or Vocal Ensemble (Piano Class IV)***	1 (1)
Major Large Instrumental or Vocal Ensemble (Piano Class III)***	1 (1)	General Education	6
General Education	3	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>16-17</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 3212 Music History 1800-Present*	3
MUS 2122 Aural Training IV*	1	MUS 4115 Instrumentation*	3
MUS 2300 Fundamentals of Conducting*	2	MUS 4400 Music Technology IV*	5
MUS 3211 Music History to 1800*	3	MUS 4420 Advanced Music Technology Practicum	0
MUS 3400 Music Technology III*	5	Approved Electives in Music#	3
MUS 4420 Advanced Music Technology Practicum	0	<b>Semester Total</b>	<b>14</b>
Approved Electives in Music#	3		
<b>Semester Total</b>	<b>17</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	Music Academic & Technology Studies Elective##	3
MUS 4040 Music Business Practices*	3	General Education	9
Music Academic & Technology Studies Elective##	3	Free Choice Electives (may not be needed if MUS 1100 or Piano is required)	0-2
General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	6-9	<b>Semester Total</b>	<b>12-14</b>
<b>Semester Total</b>	<b>12-15</b>		
		<b>After Junior or Senior Year - Summer Semester</b>	<b>Hrs.</b>
		MUS 4450 Internship in Music Technology	6
		<b>Semester Total</b>	<b>6</b>

**Music Major (Area 3 Music Technology), B.M. Degree - 124**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Choose 2 hours of Introductory Music Technology Electives. Each course is worth .5 credit hours and all 2 hours must be completed during the freshman year. Choose four courses from the following five: MUS 1400, 1410, 1420, 1430, and/or 1440. Students may also choose to do 1.5 hours in the fall semester and .5 hours in the spring semester, as three of the courses are fall only and two of the courses are spring only.
- \*\*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- #This major area requires six hours of Approved Electives in Music. MUS 1100 and MUS 1210 will not fulfill this requirement. See the department for appropriate course choices.
- ##This major area requires six hours of Music Academic & Technology Studies Electives. Choose from MUS 3141, 4000, 4101, 4125, 4185, or 4190.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 4 PIANO)

## BACHELOR OF MUSIC DEGREE

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### About the Faculty

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### Accreditation

The Department of Music is fully accredited by the National Association of Schools of Music.

### Career Opportunities

UCM has been successful in placing graduates in prestigious teaching, performing and other music-related careers. Central Missouri alumni include the concertmaster of a major symphony orchestra, a member of the U.S. Navy Sea Chanters, a vocal soloist with the New York Philharmonic Orchestra, winners of national

composition contests and highly successful educators.

### Financial Assistance

The Department of Music's Achievement Awards, Service Awards and Music Foundation Scholarships are awarded based on ability and willingness to participate in ensembles. Foundation Scholarships and Achievement Awards are reserved primarily for music majors and minors. Service Awards are available to all students. Auditions are held in November, on Presidents Day weekend each February, or by appointment.

### Performing Groups

The Marching Mules perform at all home football games and for the Kansas City Chiefs. Members receive a Service Award. The Symphonic Wind Ensemble and Symphonic Band fulfill the needs of students participating in music as an avocation and those preparing for a career. Small ensembles include two jazz bands, Percussion Ensemble, Trombone Choir, Tuba/Euphonium Ensemble, Jazz-Rock Combo and brass and woodwind quintets.

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<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
ENGL 1020 Composition I		3	ENGL 1030 Composition II		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 1510 Piano I		2	MUS 1121 Aural Training I*		1
MUS 2221 Introduction to Music Literature I*		2	MUS 1225 Music of the World's Cultures		3
Major Large Instrumental or Vocal Ensemble		1	MUS 1510 Piano I		2
General Education		3	MUS 2222 Introduction to Music Literature II*		2
<b>Semester Total</b>		<b>14</b>	Major Large Instrumental or Vocal Ensemble		1
			<b>Semester Total</b>		<b>15</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1112 Theory II*		3	MUS 1095 Keyboard Ensemble		1
MUS 1122 Aural Training II*		1	MUS 1510 Piano I		2
MUS 1510 Piano I		2	MUS 2111 Theory III*		3
MUS 2300 Fundamentals of Conducting*		2	MUS 2121 Aural Training III*		1
MUS 2515 Piano Accompanying (only offered Fall semesters of even numbered years)		2	MUS Electives in the area		3
Major Large Instrumental or Vocal Ensemble		1	Major Large Instrumental or Vocal Ensemble		1
General Education		6	General Education		6
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>17</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3060 Junior Recital		1
MUS 2122 Aural Training IV*		1	MUS 3095 Piano Accompanying Practicum		1
MUS 3211 Music History to 1800*		3	MUS 3212 Music History 1800-Present*		3
MUS 3510 Piano II		3	MUS 3510 Piano II		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	Major Large Instrumental or Vocal Ensemble		1
MUS 4511 Piano Pedagogy I - Beginner (only offered Fall semesters of odd numbered years)		3	General Education		6
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>15</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 3510 Piano II		3	MUS 3510 Piano II		3
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)		2	MUS 4060 Senior Recital		2
MUS Electives in the area		2	MUS 4202 Piano Literature Romantic Era-Present (only offered Spring semesters of odd numbered years)		2
Major Large Instrumental or Vocal Ensemble		1	MUS Required Elective**		3
General Education		9	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>13-16</b>

**Music Major (Area 4 Piano), B.M. Degree - 124**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*For the MUS Required Elective choose among the following two courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only) or MUS 4115 Instrumentation (offered spring semester).
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 4 PIANO) (This plan for 2012 not 2011)

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ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 1510 Piano I	2	MUS 1121 Aural Training I*	1
MUS 2221 Introduction to Music Literature I*	2	MUS 1225 Music of the World's Cultures	3
Major Large Instrumental or Vocal Ensemble	1	MUS 1510 Piano I	2
General Education	3	MUS 2222 Introduction to Music Literature II*	2
<b>Semester Total</b>	<b>14</b>	Major Large Instrumental or Vocal Ensemble	1
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 1095 Keyboard Ensemble	1
MUS 1122 Aural Training II*	1	MUS 1510 Piano I	2
MUS 1510 Piano I	2	MUS 2111 Theory III*	3
MUS 2300 Fundamentals of Conducting*	2	MUS 2121 Aural Training III*	1
Major Large Instrumental or Vocal Ensemble	1	MUS Electives in the area	3
General Education	6	Major Large Instrumental or Vocal Ensemble	1
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 3060 Junior Recital	1
MUS 2122 Aural Training IV*	1	MUS 3095 Piano Accompanying Practicum	1
MUS 2515 Piano Accompanying (only offered Fall semesters of even numbered years)	2	MUS 3212 Music History 1800-Present*	3
MUS 3211 Music History to 1800*	3	MUS 3510 Piano II	3
MUS 3510 Piano II	3	MUS 4202 Piano Literature Romantic Era-Present (only offered Spring semesters of odd numbered years)	2
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)	2	Major Large Instrumental or Vocal Ensemble	1
General Education	3	General Education	6
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>17</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 3510 Piano II	3	MUS 3510 Piano II	3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 4060 Senior Recital	2
MUS 4511 Piano Pedagogy I - Beginner (only offered Fall semesters of odd numbered years)	3	MUS Required Elective**	3
MUS Electives in the area	2	General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	6-9
Major Large Instrumental or Vocal Ensemble	1	<b>Semester Total</b>	<b>14-17</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

**Music Major (Area 4 Piano), B.M. Degree - 124**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 5 PIANO PEDAGOGY)

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**Music Major (Area 5 Piano Pedagogy), B.M. Degree (44-05472)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 1510 Piano I	2	MUS 1121 Aural Training I*	1
PSY 1100 General Psychology	3	MUS 1225 Music of the World's Cultures	3
Major Large Instrument or Vocal Ensemble	1	MUS 1510 Piano I	2
General Education	3	MUS 2222 Introduction to Music Literature II*	2
<b>Semester Total</b>	<b>15</b>	PSY 2200 Child Psychology	3
		Major Large Instrument or Vocal Ensemble	1
		<b>Semester Total</b>	<b>18</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 1510 Piano I	2
MUS 1122 Aural Training II*	1	MUS 2111 Theory III*	3
MUS 1510 Piano I	2	MUS 2121 Aural Training III*	1
MUS 2300 Fundamentals of Conducting*	2	Major Large Instrument or Vocal Ensemble	1
MUS 3510 Piano II (only offered Fall semesters of even numbered years)	1.5	General Education	9
Major Large Instrument or Vocal Ensemble	1	<b>Semester Total</b>	<b>16</b>
General Education	6		
<b>Semester Total</b>	<b>16.5</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1
MUS 2122 Aural Training IV*	1	MUS 3510 Piano II	3
MUS 2515 Piano Accompanying	2	MUS 4202 Piano Literature Romantic Era - Present*	2
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years)	3
MUS 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years)	3	MUS 4514 Piano Pedagogy IV - Seminar*	3
General Education	3	MUS 4515 Practice Teaching in Piano*	1.5
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>16.5</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1
MUS 3211 Music History to 1800*	3	MUS 3212 Music History 1800-Present*	3
MUS 3510 Piano II	3	MUS 3510 Piano II	3
MUS 4101 Counterpoint I (only offered Fall semesters of even numbered years)	3	MUS 4060 Senior Recital	2
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)	2	MUS 4515 Practice Teaching in Piano*	1.5
MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years)	3	General Education	6
General Education (0 hours of General Education are needed here if 3 hours were taken in the first semester instead of MUS 1100)	0-3	<b>Semester Total</b>	<b>16.5</b>
<b>Semester Total</b>	<b>15</b>		

**Music Major (Area 5 Piano Pedagogy), B.M. Degree - 128.5**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 5 PIANO PEDAGOGY)

BACHELOR OF MUSIC DEGREE

(This plan for 2012  
not 2011)

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### About the Faculty

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### Accreditation

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### Career Opportunities

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composition contests and highly successful educators.

### Financial Assistance

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### Performing Groups

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Keyboard students refine their skills through private lessons, studio classes, weekly student recitals and evening solo and ensemble recitals. There are many opportunities for accompanying and participating in an annual concerto contest.

### Curriculum

Theory and music history courses provide insights into the music of the past and present. The first two years of theory stress building a good foundation in ear training and understanding patterns and grouping of sounds to improve creativity, performance and teaching ability. Advanced courses in form and analysis, counterpoint, composition and instrumentation are taught by specialists in those areas. Composition courses explore 20th century techniques. Students receive instruction and studio time in well-equipped electronic music facilities. A well-equipped recording studio provides practical experience for music technology students.

### To Learn More

For more information, write to the Department of Music, UCM, Warrensburg, MO 64093, or call 660-543-4530. For admission information, call 877-SAY-UCMO (877-729-8266). The department's home page address is [www.ucmo.edu/music](http://www.ucmo.edu/music).

**Music Major (Area 5 Piano Pedagogy), B.M. Degree (44-05472)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 1510 Piano I	2	MUS 1121 Aural Training I*	1
PSY 1100 General Psychology	3	MUS 1225 Music of the World's Cultures	3
Major Large Instrument or Vocal Ensemble	1	MUS 1510 Piano I	2
General Education	3	MUS 2222 Introduction to Music Literature II*	2
<b>Semester Total</b>	<b>15</b>	PSY 2200 Child Psychology	3
		Major Large Instrument or Vocal Ensemble	1
		<b>Semester Total</b>	<b>18</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 1510 Piano I	2
MUS 1122 Aural Training II*	1	MUS 2111 Theory III*	3
MUS 1510 Piano I	2	MUS 2121 Aural Training III*	1
MUS 2300 Fundamentals of Conducting*	2	MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years)	3
MUS 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years)	3	Major Large Instrument or Vocal Ensemble	1
Major Large Instrument or Vocal Ensemble	1	General Education	6
General Education	6	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>18</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1
MUS 2122 Aural Training IV*	1	MUS 3510 Piano II	3
MUS 2515 Piano Accompanying	2	MUS 4202 Piano Literature Romantic Era - Present*	2
MUS 3510 Piano II (only offered Fall semesters of even numbered years)	1.5	MUS 4514 Piano Pedagogy IV - Seminar*	3
MUS 4101 Counterpoint I (only offered Fall semesters of even numbered years)	3	MUS 4515 Practice Teaching in Piano*	1.5
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)	2	General Education	6
MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years)	3	<b>Semester Total</b>	<b>16.5</b>
<b>Semester Total</b>	<b>15.5</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1
MUS 3211 Music History to 1800*	3	MUS 3212 Music History 1800-Present*	3
MUS 3510 Piano II	3	MUS 3510 Piano II	3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 4060 Senior Recital	2
General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	3-6	MUS 4515 Practice Teaching in Piano*	1.5
<b>Semester Total</b>	<b>13-16</b>	General Education	6
		<b>Semester Total</b>	<b>16.5</b>

**Music Major (Area 5 Piano Pedagogy), B.M. Degree - 128.5**

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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 6 VOCAL)

## BACHELOR OF MUSIC DEGREE

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### About the Faculty

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### Accreditation

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### Financial Assistance

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Theory and music history courses provide insights into the music of the past and present. The first two years of theory stress building a good foundation in ear training and understanding patterns and grouping of sounds to improve creativity, performance and teaching ability. Advanced courses in form and analysis, counterpoint, composition and instrumentation are taught by specialists in those areas. Composition courses explore 20th century techniques. Students receive instruction and studio time in well-equipped electronic music facilities. A well-equipped recording studio provides practical experience for music technology students.

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**Music Major (Area 6 Vocal), B.M. Degree (44-06472)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
FREN 1201 Elem. French I or GER 1301 Elem. German I*	3	FREN 1202 Elem. French II or GER 1302 Elem. German II*	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+** or General Education	3	MUS 1111 Theory I**	3
MUS 1610 Voice I	2	MUS 1121 Aural Training I**	1
MUS 2221 Introduction to Music Literature I**	2	MUS 1610 Voice I	2
Major Large Vocal Ensemble (Piano Class I)***	1	MUS 2222 Introduction to Music Literature II**	2
	(1)	Major Large Vocal Ensemble (Piano Class II)***	1
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II**	3	MUS 1610 Voice I	2
MUS 1122 Aural Training II**	1	MUS 2111 Theory III**	3
MUS 1610 Voice I	2	MUS 2121 Aural Training III**	1
MUS 2300 Fundamentals of Conducting**	2	Major Large Vocal Ensemble (Piano Class IV)***	1
Major Large Vocal Ensemble (Piano Class III)***	1	General Education	(1)
General Education	(1)		9
	6	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>15-16</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV**	3	MUS 1225 Music of the World's Cultures	3
MUS 2122 Aural Training IV**	1	MUS 1615 Opera Theatre**	2
MUS 3211 Music History to 1800**	3	MUS 2632 Diction for Singers (only offered Spring semesters of even numbered years)	3
MUS 3610 Voice II	3	MUS 3060 Junior Recital	1
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 3212 Music History 1800 - Present**	3
MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years)	3	MUS 3610 Voice II	3
Major Large Vocal Ensemble	1	General Education	3
	17	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>			

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 3610 Voice II	3	MUS 3610 Voice II	3
MUS Required Elective#	3	MUS 4060 Senior Recital	2
Major Large Vocal Ensemble	1	MUS 4600 Vocal Pedagogy (only offered Spring semesters of odd numbered years)	2
General Education	9	MUS Electives	3
	16	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	3-6
<b>Semester Total</b>		<b>Semester Total</b>	<b>13-16</b>

**Music Major (Area 6 Vocal), B.M. Degree - 124**

- \*Student's initial placement in foreign language coursework will be determined by examination. If a student begins in FREN 1202 or GER 1302 and earns a grade of C or higher, the student will earn 3 hours of validated credit for FREN 1201 or GER 1301.
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- #For the MUS Required Elective choose among the following two courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only) or MUS 4115 Instrumentation (offered spring semester).
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC (AREA 6 VOCAL) (This plan for 2012 not 2011)

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<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
ENGL 1020 Composition I		3	ENGL 1030 Composition II		3
FREN 1201 Elem. French I or GER 1301 Elem. German I*		3	FREN 1202 Elem. French II or GER 1302 Elem. German II**		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+** or General Education		3	MUS 1111 Theory I**		3
MUS 1610 Voice I		2	MUS 1121 Aural Training I**		1
MUS 2221 Introduction to Music Literature I**		2	MUS 1610 Voice I		2
Major Large Vocal Ensemble (Piano Class I)***		1	MUS 2222 Introduction to Music Literature II**		2
		(1)	Major Large Vocal Ensemble		1
			(Piano Class II)***		(1)
<b>Semester Total</b>		<b>14-15</b>	<b>Semester Total</b>		<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1112 Theory II**		3	MUS 1610 Voice I		2
MUS 1122 Aural Training II**		1	MUS 2111 Theory III**		3
MUS 1610 Voice I		2	MUS 2121 Aural Training III**		1
MUS 2300 Fundamentals of Conducting**		2	MUS 2632 Diction for Singers (only offered Spring semesters of even numbered years)		3
Major Large Vocal Ensemble (Piano Class III)***		1	Major Large Vocal Ensemble		1
General Education		(1)	(Piano Class IV)***		(1)
		6	General Education		6
<b>Semester Total</b>		<b>15-16</b>	<b>Semester Total</b>		<b>16-17</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV**		3	MUS 1225 Music of the World's Cultures		3
MUS 2122 Aural Training IV**		1	MUS 1615 Opera Theatre**		2
MUS 3211 Music History to 1800**		3	MUS 3060 Junior Recital		1
MUS 3610 Voice II		3	MUS 3212 Music History 1800 - Present**		3
Major Large Vocal Ensemble		1	MUS 3610 Voice II		3
General Education		6	MUS 4600 Vocal Pedagogy (only offered Spring semesters of odd numbered years)		2
			General Education		3
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>17</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 3610 Voice II		3	MUS 3610 Voice II		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital		2
MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years)		3	MUS Electives		3
MUS Required Elective#		3	General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		6-9
Major Large Vocal Ensemble		1			
General Education		3	<b>Semester Total</b>		<b>14-17</b>
<b>Semester Total</b>		<b>16</b>			

**Music Major (Area 6 Vocal), B.M. Degree - 124**

- \*Student's initial placement in foreign language coursework will be determined by examination. If a student begins in FREN 1202 or GER 1302 and earns a grade of C or higher, the student will earn 3 hours of validated credit for FREN 1201 or GER 1301.
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- \*\*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- #For the MUS Required Elective choose among the following two courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only) or MUS 4115 Instrumentation (offered spring semester).
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC EDUCATION

## INSTRUMENTAL MUSIC OPTION, BACHELOR OF MUSIC EDUCATION DEGREE

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### About the Faculty

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### Career Opportunities

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### Performing Groups

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### Curriculum

Theory and music history courses provide insights into the music of the past and present. The first two years of theory stress building a good foundation in ear training and understanding patterns and grouping of sounds to improve creativity, performance and teaching ability. Advanced courses in form and analysis, counterpoint, composition and instrumentation are taught by specialists in those areas. Composition courses explore 20th century techniques. Students receive instruction and studio time in well-equipped electronic music facilities. Music education courses prepare students for teaching careers.

### To Learn More

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**Music Education Major (Instrumental Option), B.M.E. Degree (45-440)**

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<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>		3	<b><i>ENGL 1030 Composition II</i></b>		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
Instrument Techniques Class**		3	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		1	MUS 1225 Music of the World's Cultures		3
Major Large Instrumental Ensemble		1	Instrument Techniques Class**		1
(Piano)		(1)	Major Instrument, 1000 Level		1
<b><i>POLS 1510 American Government</i></b>		3	Major Large Instrumental Ensemble		1
<b><i>General Education MATH</i></b>		3	(Piano)		(1)
<b>Semester Total</b>		<b>15-16</b>	<b><i>General Education Science w/lab</i></b>		<b>4</b>
			<b>Semester Total</b>		<b>17-18</b>
<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 2100 Foundations of Education		2	MUS 1000 Recital Attendance		0
FLDX 2150 Introductory Field Experience		1	MUS 2111 Theory III*		3
EDFL 2240 Educational Psychology		3	MUS 2121 Aural Training III*		1
HIST 1350 or HIST 1351 History of the United States		3	PSY 4200 Psychology of Exceptional Children or		
MUS 1000 Recital Attendance		0	EDSP 2100 Education of the Exceptional Child		2
MUS 1112 Theory II*		3	Instrument Techniques Class**		1
MUS 1122 Aural Training II*		1	Major Large Instrumental Ensemble		1
Instrument Techniques Class**		1	Major Instrument, 1000 Level		1
Major Instrument, 1000 Level		1	(Piano)		(1)
Major Large Instrumental Ensemble		1	General Education		6
(Piano)		(1)	<b>Semester Total</b>		<b>15-16</b>
<b>Semester Total</b>		<b>16-17</b>			
<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 4300 Educational Measurement & Evaluation		2	MUS 1000 Recital Attendance		0
MUS 1000 Recital Attendance		0	MUS 3212 Music History 1800-Present*		3
MUS 2112 Theory IV*		3	MUS 3306 Methods of Teaching Instrumental Music*		3
MUS 2122 Aural Training IV*		1	MUS 3320 Instrumental Conducting & Rehearsal Tech.*		3
MUS 2300 Fundamentals of Conducting*		2	MUS 4115 Instrumentation*		3
MUS 3211 Music History to 1800*		3	MUS 4381 Jazz Pedagogy*		2
MUS 3308 Marching Band Techniques*		1	Instrument Techniques Class**		1
PSY 4230 Psychology of Adolescence		3	Major Instrument, 3000 Level		1.5
Instrument Techniques Class**		1	Major Large Instrumental Ensemble		1
Major Instrument, 3000 Level		1.5	<b>Semester Total</b>		<b>17.5</b>
Major Large Instrumental Ensemble		1			
<b>Semester Total</b>		<b>18.5</b>			
<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 3500 Secondary Teaching & Behavioral Management		3	FLDX 4595 Student Teaching Secondary I		5
FLDX 3550 Practicum in Secondary Instruction		1	ICAP 4468 Student Teaching Secondary II		4
EDFL 4210 Teaching Reading in Secondary School		2	MUS 4310 Methods of Teaching Music		2
MUS 1000 Recital Attendance		0	MUS 4350 Secondary Field Experience II		1
MUS 1601 Voice Class I		1	General Education (not needed if taken in first semester		
Instrument Techniques Class**		1	instead of MUS 1100, if needed choose an online		
Major Instrument, 3000 Level		1.5	course)		(3)
Major Large Instrumental Ensemble		1	<b>Semester Total</b>		<b>12-15</b>
General Education		8			
<b>Semester Total</b>		<b>18.5</b>			

**Music Education Major (Instrumental Option), B.M.E. Degree – 129.5-137.5 hours**

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Instrument Techniques Classes include the following (all courses are worth one credit hour): MUS 1601, 1701, 2801, 2802, 2901, 2902, and 2950.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC EDUCATION

VOCAL MUSIC OPTION, BACHELOR OF MUSIC EDUCATION DEGREE

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**Music Education Major (Vocal Option), B.M.E Degree (45-441)**

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<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>		3	<b>ENGL 1030 Composition II</b>		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 1610 Voice I		1	MUS 1121 Aural Training I*		1
MUS 1225 Music of the World's Cultures		3	MUS 1610 Voice 1		1
Major Large Vocal Ensemble (Piano)		1 (1)	Major Large Vocal Ensemble (Piano)		1 (1)
<b>General Education Science w/lab</b>		4	<b>POLS 1510 American Government</b>		3
<b>Semester Total</b>		<b>15-16</b>	<b>General Education MATH</b>		3
			General Education (technology)		2
			<b>Semester Total</b>		<b>17-18</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 2100 Foundations of Education		2	HIST 1350 or 1351 History of the United States		3
FLDX 2150 Introductory Field Experience		1	MUS 1000 Recital Attendance		0
EDFL 2240 Educational Psychology		3	MUS 1610 Voice 1		1
MUS 1000 Recital Attendance		0	MUS 1615 Opera Theatre (spring only) or MUS 1620 Music Theatre Practicum I* (fall only)		(1)
MUS 1112 Theory II*		3	MUS 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 1610 Voice 1		1	MUS 2222 Introduction to Music Literature II*		2
MUS 2221 Introduction to Music Literature I*		2	MUS 2632 Diction for Singers*		2
MUS 2300 Fundamentals of Conducting*		2	Major Large Vocal Ensemble (Piano)		1 (1)
Major Large Vocal Ensemble (Piano)		1 (1)	General Education		3
<b>Semester Total</b>		<b>16-17</b>	<b>Semester Total</b>		<b>16-18</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	EDFL 4210 Teaching Reading in Secondary Schools		2
MUS 1615 Opera Theatre (spring only) or MUS 1620 Music Theatre Practicum I* (fall only)		(1)	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3212 Music History 1800-Present*		3
MUS 2122 Aural Training IV*		1	MUS 3610 Voice II		1.5
MUS 3211 Music History to 1800*		3	MUS 4230 Choral Literature*		2
MUS 3310 Choral Conducting*		2	PSY 4230 Psychology of Adolescence		3
MUS 3610 Voice II		1.5	Major Large Vocal Ensemble General Education		1 6
MUS 4320 Methods of Teach Middle School Music*# (offered fall semester of odd numbered years only)		2	<b>Semester Total</b>		<b>18.5</b>
PSY 4200 Psychology of Exceptional Children or EDSP 2100 Education of the Exceptional Child		2 1			
Major Large Vocal Ensemble		1			
<b>Semester Total</b>		<b>15.5-16.5</b>			

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 3500 Sec. Teaching & Behavioral Management		3	FLDX 4595 Student Teaching Secondary I		5
FLDX 3550 Practicum in Secondary Instruction		1	ICAP 4468 Student Teaching Secondary II		4
EDFL 4300 Educational Measurement & Evaluation		2	MUS 4310 Methods of Teaching Music		2
MUS 1000 Recital Attendance		0	MUS 4350 Secondary Field Experience II		1
MUS 3305 Methods of Teaching Elementary School Music (offered fall semester of even numbered years only)		3	General Education (only 3 hours needed if a gen ed is taken in first semester instead of MUS 1100)		3-6
MUS 3315 Choral Techniques*		2	<b>Semester Total</b>		<b>15-18</b>
MUS 3610 Voice II		1.5			
MUS 4130 Choral Arranging* (offered fall semester of even numbered years only)		2			
Major Large Vocal Ensemble		1			
General Education		3			
<b>Semester Total</b>		<b>18.5</b>			

**Music Education Major (Vocal Option), B.M.E. Degree – 129.5-136.5 hours**

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- #Permission of instructor required for enrollment without prerequisite (MUS 3305 or 3306).
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
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## College of Arts, Humanities, and Social Sciences

Department of Music

# MUSIC EDUCATION (This plan for 2012 not 2011)

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<b>ENGL 1020 Composition I</b>		3	<b>ENGL 1030 Composition II</b>		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 1610 Voice I		1	MUS 1121 Aural Training I*		1
MUS 1225 Music of the World's Cultures		3	MUS 1610 Voice I		1
Major Large Vocal Ensemble		1	Major Large Vocal Ensemble		1
(Piano)		(1)	(Piano)		(1)
<b>General Education Science w/lab</b>		4	<b>POLS 1510 American Government</b>		3
<b>Semester Total</b>		<b>15-16</b>	<b>General Education MATH</b>		3
			General Education (technology)		2
			<b>Semester Total</b>		<b>17-18</b>
<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 2100 Foundations of Education		2	HIST 1350 or 1351 History of the United States		3
FLDX 2150 Introductory Field Experience		1	MUS 1000 Recital Attendance		0
EDFL 2240 Educational Psychology		3	MUS 1610 Voice I		1
MUS 1000 Recital Attendance		0	MUS 2111 Theory III*		3
MUS 1112 Theory II*		3	MUS 2121 Aural Training III*		1
MUS 1122 Aural Training II*		1	MUS 2222 Introduction to Music Literature II*		2
MUS 1610 Voice I		1	Major Large Vocal Ensemble		1
MUS 2221 Introduction to Music Literature I*		2	(Piano)		(1)
MUS 2300 Fundamentals of Conducting*		2	General Education		6
Major Large Vocal Ensemble		1	<b>Semester Total</b>		<b>17-18</b>
(Piano)		(1)			
<b>Semester Total</b>		<b>16-17</b>			
<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
MUS 1000 Recital Attendance		0	EDFL 4210 Teaching Reading in Secondary Schools		2
MUS 1615 Opera Theatre (spring only) or			MUS 1000 Recital Attendance		0
MUS 1620 Music Theatre Practicum I* (fall only)		(1)	MUS 1615 Opera Theatre (spring only) or		
MUS 2112 Theory IV*		3	MUS 1620 Music Theatre Practicum I* (fall only)		(1)
MUS 2122 Aural Training IV*		1	MUS 2632 Diction for Singers*		2
MUS 3211 Music History to 1800*		3	MUS 3212 Music History 1800-Present*		3
MUS 3305 Methods of Teaching Elementary School Music		3	MUS 3610 Voice II		1.5
(offered fall semester of even numbered years only)		3	MUS 4230 Choral Literature*		2
MUS 3310 Choral Conducting*		2	PSY 4230 Psychology of Adolescence		3
MUS 3610 Voice II		1.5	Major Large Vocal Ensemble		1
MUS 4130 Choral Arranging* (offered fall semester of			General Education		3
even numbered years only)		2	<b>Semester Total</b>		<b>17.5-</b>
Major Large Vocal Ensemble		1			<b>18.5</b>
<b>Semester Total</b>		<b>16.5-</b>			
		<b>17.5</b>			
<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
EDFL 3500 Sec. Teaching & Behavioral Management		3	FLDX 4595 Student Teaching Secondary I		5
FLDX 3550 Practicum in Secondary Instruction		1	ICAP 4468 Student Teaching Secondary II		4
EDFL 4300 Educational Measurement & Evaluation		2	MUS 4310 Methods of Teaching Music		2
MUS 1000 Recital Attendance		0	MUS 4350 Secondary Field Experience II		1
MUS 3315 Choral Techniques*		2	General Education (only 3 hours needed if a gen ed is		
MUS 3610 Voice II		1.5	taken in first semester instead of MUS 1100)		3-6
MUS 4320 Methods of Teach Middle School Music*			<b>Semester Total</b>		<b>15-18</b>
(offered fall semester of odd numbered years only)		2			
PSY 4200 Psychology of Exceptional Children or					
EDSP 2100 Education of the Exceptional Child		2			
Major Large Vocal Ensemble		1			
General Education		3			
<b>Semester Total</b>		<b>17.5</b>			

**Music Education Major (Vocal Option), B.M.E. Degree – 129.5-136.5 hours**

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- \*This course is only offered during the semester listed.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before student teaching. The application for student teaching is due approximately one year in advance.



## College of Health, Science, and Technology

Department of Nursing

# NURSING

## BACHELOR OF SCIENCE DEGREE

A bachelor's degree in nursing from UCM can be the beginning of the most flexible, challenging and rewarding career in health care. While earning their degrees, Central Missouri's nursing students receive experience in both rural and urban environments. Two semesters are offered on the main campus in Warrensburg with clinical practica at nearby agencies. Two semesters of courses are offered at the Central Summit Center with clinical practica in several Kansas City area health care facilities including Children's Mercy Hospital, The Veteran Affairs Medical Center, St. Luke's Medical Center, and North Kansas City Hospital.

Upon completing UCM's four-year nursing program, nursing graduates are eligible to take the National Council Licensure Examination (NCLEX-RN) for Registered Nurses. After passing this exam, graduates are qualified to practice as registered nurses.

Professionals can upgrade from RN to a bachelor's degree through Central Missouri's "RN-BS" option within the nursing major. Registered nurses face increasingly complex demands that require a broad-based bachelor's degree preparation. The "RN-BS" option enhances a nurse's ability to think critically, to demonstrate leadership skills, and to understand the complexity of professional nursing. Upon earning the Bachelor of Science degree, a nurse is eligible to continue his or her education at the master's degree level, further enhancing career opportunities.

### Career Opportunities

UCM's nursing graduates choose from a wide range of options, from working with newborns to being a flight nurse on a helicopter to forensic nursing with a BS(N).

Undergraduate nursing majors from Central Missouri often continue their education in our graduate nursing program featuring two diverse specialty areas. Advancing one's nursing education at UCM can open up new career opportunities in administration, private practice, research, consultation, and many other careers.

### Job Outlook

Career opportunities in nursing are expected to grow. More than 1.2 million nurses will be needed nationwide by 2014. As our population becomes more diverse, there is a need for nurses of all ethnic and racial backgrounds. Earnings are above average when compared to other professions. Schedules are flexible with work available part time, full time or any time of day anywhere worldwide.

### Special Facilities

Once admitted to the nursing program, our junior nursing students attend classes located in the nursing department in Warrensburg and receive diverse clinical experiences in a rural environment. Senior nursing students attend classes located at UCM Summit Center in Lee's Summit and receive diverse clinical experiences in an urban environment. Upon graduation, our nursing students have developed the flexibility to perform well in any environment in which they choose to practice.

### Admission Requirements

Students entering UCM as freshmen or by transfer should indicate a pre-nursing major and have a program-scheduling appointment with an adviser in the Department of Nursing when enrolled in NUR 1700. This appointment is made by calling 660-543-4775.

Students are admitted into the program twice a year following Department of Nursing acceptance and satisfactory completion of prerequisite courses. Students apply for admission to the nursing program as sophomores, a year in advance. The application through CAS is due July 1 for spring admission and by January 1 for fall admission. Requirements to be met are completing nursing prerequisites and General Education requirements; minimum grade point average of 2.75; minimum of a "C" in prerequisite courses.

### To Learn More

Individuals interested in UCM's Nursing Program are invited to visit the department's web pages [www.ucmo.edu/nursing](http://www.ucmo.edu/nursing); call the Department of Nursing at 660-543-4775; or write to the Department of Nursing, UCM, University Health Center 106, Warrensburg, MO 64093.

You may also call Central Missouri's Kansas City Department of Nursing at 816-282-1100; or write to UCM's Kansas City Department of Nursing, 850 N.W. Chipman Road Lee's Summit, MO 64063.

For university admission information call 877-SAY-UCMO (877-729-8266) or visit UCM's website at [www.ucmo.edu](http://www.ucmo.edu).

**Nursing Major, B.S. Degree (43-133)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry*	4		BIOL 2401 Anatomy & Physiology I*	4	
ENGL 1020 Composition I	3		ENGL 1030 Composition II	3	
NUR 1700 Introduction to Professional Nursing**	1		PSY 1100 General Psychology*	3	
SOC 1800 General Sociology*	3		General Education	5-6	
General Education	3		<b>Semester Total</b>	<b>15-16</b>	
<b>Semester Total</b>	<b>14</b>				

<b>Sophomore Year - Fall Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs.</b>
BIOL 2402 Anatomy & Physiology II*	4		BIOL 3610 Microbiology*	3	
D&N 3340 Nutrition*	3		NUR 2700 Professional Nursing Seminar**	1	
General Education	9		Nursing Elective***	2	
<b>Semester Total</b>	<b>16</b>		General Education	9	
			<b>Semester Total</b>	<b>15</b>	

**-- ENTER NURSING PROGRAM --**

<b>Junior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs.</b>
NUR 3200 Pathophysiology#	4		NUR 3510 Concepts of Gerontic Nursing	2	
NUR 3210 Pharmacological Therapeutics	3		NUR 3610 Concepts of Adult & Older Adult Nursing I	3	
NUR 3304 Assessment Across the Lifespan	2		NUR 3611 Concepts of Adult & Old. Ad. Nrsg I Practicum	4	
NUR 3305 Assessment Across the Lifespan Lab	1		NUR 3612 Technical Nursing Applications II	2	
NUR 3410 Concepts of Nursing in Wellness	3		NUR 4012 Evidence-based Practice	2	
NUR 3411 Concepts of Nursing in Wellness Practicum	2		NUR 4013 Health Policy & Ethics	2	
NUR 3412 Technical Nursing Applications I	1		<b>Semester Total</b>	<b>15</b>	
<b>Semester Total</b>	<b>16</b>				

**-- TO KANSAS CITY LAST TWO SEMESTERS --**

<b>Senior Year - Fall Semester</b>		<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs.</b>
ICAP 4111 Socio-Econ Factors Impacting Health	3		NUR 4600 Con. of Nursing Leadership in Mgmt CH/MH	6	
NUR 4410 Concepts of Maternal-Child Nursing	3		NUR 4601 Concepts of Nursing Leadership in Management & Community Health/Mental Health Practicum	6	
NUR 4411 Concepts of Maternal-Child Nursing Practicum	2		NUR 4602 Synthesis of Nursing Concepts	1	
NUR 4510 Concepts of Adult & Older Adult Nursing II	3		<b>Semester Total</b>	<b>13</b>	
NUR 4511 Concepts of Ad. & Old. Ad. Nrsg. II Practicum	3				
NUR 4512 Adv. Tech. & Pharmacological Nursing Apps.	2				
<b>Semester Total</b>	<b>16</b>				

**Nursing Major, B.S. Degree - 120 hours**

- \*Nursing Program Prerequisite Courses (must be taken prior to admission to the program). Preference for admission into the Nursing major will be given to students taking ALL prerequisites at UCM.
- \*\*Lower Level Required Nursing Courses (must be taken prior to admission to the program).
- \*\*\*Nursing electives may be taken anytime after sophomore standing is achieved. One Nursing elective course is required from the following: NUR 2000 e-Health and Cyber Wellness; NUR 4020 Grief and Loss; NUR 4030 Human Sexuality; NUR 4040 Nursing Informatics; NUR 4405 Aging of Self and Others.
- #NUR 3200 may be taken prior to entry into the program or in the Nursing program.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Education

Department of Career and Technology Education

# OCCUPATIONAL EDUCATION

## BACHELOR OF SCIENCE DEGREE

The University of Central Missouri's Bachelor of Science in Occupational Education degree program is ideal for mid-career professionals who have worked in an occupation and are interested in pursuing a teaching career. The degree provides students with a blend of academic coursework, career education courses, and additional learning in students' teaching specialty area.

### Career Preparation

The program is committed to educating participants in comprehensive personal development, which responds to specific occupational updating, professional growth and enhancement, and state-of-the-art information sharing for and with career educators. It advocates a teaching approach, which brings about desired changes in the knowledge, skills, attitudes, and appreciation level of those in training. The program offers flexibility in course planning depending on the objectives of the student.

Students who complete a degree in occupational education may apply for Career Education teacher certification with the Missouri Department of Elementary and Secondary Education (DESE). By doing so, they can teach in comprehensive high schools with career education programs in their specialty area; public post-secondary programs such as career centers, adult evening schools, Federal Job Training Partnership Act (JTPA) programs, and others (completion of a vocational education credential program may be required). Additional opportunities are in private

postsecondary settings such as private proprietary schools and private two-year colleges; community colleges with career education programs; industry and business training programs as trainers, managers, and program designers for adult learners.

Occupational education teachers prepare their students to be successful in their chosen career paths. They teach extensive employability and leadership skills, life skills and enhance their general education skills and knowledge. The teaching specialty areas are too numerous to list, but will generally fall into the skilled technical sciences or health sciences career clusters.

### Academic Program

The occupational education degree can be achieved as a traditional Bachelor of Science four-year degree or as a "2+2" program designed to build upon an Associate's of Applied Sciences degree in occupational education from a participating accredited community college. This degree may also complete Missouri Career Education Teacher Certification requirements for skilled technical sciences and health sciences instructors.

Students obtain job relevance and valid, reliable, career experience through participatory planning and affiliation with industry, career education school practitioners, professional associations, and representatives of UCM.

### Faculty

The program coordinator and lead faculty person for the occupational education major is Lori Cochran. She teaches major

courses and supervises teaching and administrative internships. Other major courses are taught by additional University of Central Missouri full-time and part-time faculty housed in the College of Education. Practitioner adjuncts across the state also teach.

### Facilities

Most courses are delivered in non-traditional format methods. Courses are delivered online, evenings on and off campus, and in regional locations across the state to meet student needs for timely, convenient delivery.

### Professional Organizations

Although there is not a student organization specifically for occupational education students/teachers, many of the participants of this degree program are members of, and carry certification through, professional organizations within their teaching/technical specialty area. For example, most of the automotive technology instructors are members of the Society of Automotive Engineers and welding technology teachers belong to American Welding Society.

### To Learn More

To learn more, call the Department of Career and Technology Education at 660-543-4452 or visit [www.ucmo.edu/cte](http://www.ucmo.edu/cte).

For admission information, call toll free 877-SAY-UCMO (877-729-8266). UCM's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Occupational Education Major, B.S. Degree (43-249)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CTE 2000 Technology & Society	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	Teaching Specialty Area	6
Teaching Specialty Area	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CTE 3060 Technical Writing	3	SOT 4570 Computer Graphics	3
EDFL 2240 Educational Psychology	3	Teaching Specialty Area	6
Teaching Specialty Area	3	General Education	6
General Education	7	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 4145 Curriculum Construction in Career & Tech. Edu.	3	CTE 4110 Foundations of Career & Tech. Education or	
PSY 4200 Psychology of the Exceptional Child	2	CTE 4140 New Teacher Institute	3
Teaching Specialty Area	6	CTE 4180 Adult Programs or	
General Education	6	EDFL 3500 Secondary Teaching & Behavioral Mgmt.	3
<b>Semester Total</b>	<b>17</b>	Teaching Specialty Area	4-5
		General Education	3
		<b>Semester Total</b>	<b>13-14</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CTE 4160 Methods of Teaching Career & Technology Edu.	3	CTE 4022 Occupational Admin./Teaching Internship	3
IGEN 3116 Creative Problem Solving	3	CTE 4150 Vocational Guidance or	
Teaching Specialty Area	6	BTE 4241 Coord. of Cooperative Education Programs	2-3
General Education	3	CTE 4165 Performance Assessment in Career & Tech. Edu.	3
<b>Semester Total</b>	<b>15</b>	Teaching Specialty Area	6
		<b>Semester Total</b>	<b>14-15</b>

**Occupational Education Major, B.S. Degree - 120 hours**

- Students completing this program online should seek advice from the department and academic advisors for available online general education classes.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# OCCUPATIONAL SAFETY AND HEALTH

## BACHELOR OF SCIENCE DEGREE

University of Central Missouri's ASAC-ABET accredited Bachelor of Science degree program in occupational safety and health teaches students the legal, professional and ethical responsibilities of safety and health managers in the workplace. In addition, they are grounded in the safety sciences issues faced in local, national and global contexts, and in identifying technical solutions to occupational safety and health problems and scientific solutions to mitigate hazardous exposures.

Billions of dollars are lost each year as a result of avoidable accidents and unhealthy exposures on the job, at home and on the highways. Through the application of science and technology, potential safety, security and health losses are reduced by investigating people in their environments and by applying scientific principles of control. Safety sciences professionals are in demand, and the occupational safety and health program prepares individuals for rewarding careers in this field.

### Career Opportunities

Career placement rates for safety science graduates are very high. Graduating students may receive multiple job offers prior to graduation, and entry-level compensation ranks high in relation to numerous other professional fields. Graduates may seek employment as safety analysts, safety managers, corporate health officers, loss control managers, systems safety analysts or OSHA/EPA

compliance officers, as well as arson investigators, security managers, transportation safety managers, public services administrators, or industrial hygienists and others.

### Scholarships

In addition to achievement awards, the safety programs have several scholarships available to students including MEM Outstanding Student Scholarships, the Tieszen, Goetz, Phillips Petroleum Company, Key Safety, Brueske Industrial Safety, Freeman Transportation, Goldberg St. Louis Risk and Insurance Management Society, St. Louis ASSE Chapter scholarships, and the Construction Safety Group of Kansas City Scholarship program.

### About the Faculty

The safety programs have a highly qualified faculty, known for stimulating student achievement in departmental programs and projects. UCM's 16 to 1 student-faculty ratio allows for personalized attention and mentoring. In addition to diverse backgrounds and experience, they are also active participants in research and scholarly activity. Faculty members are active in professional organizations and have presented at national and international conferences.

Other sources of program strength include working relationships with the Occupational Safety and Health Administration, Environmental Protection Agency, Department of Transportation, Mine Safety and

Health Administration, American Society of Safety Engineers, and American Industrial Hygiene Association.

### Student Involvement

Safety students are encouraged to participate in professional organizations. Student chapters of the American Society of Safety Engineers, the American Industrial Hygiene Association, and the Rho Sigma Kappa Honor Society are available in the department. The safety programs also offer an internship program to qualified students. Internships allow students to gain practical experience in the operation of various components of the safety science field. Internships are available with business, industry and government.

### To Learn More

For more information, contact the OSH program coordinator, Humphreys 327, UCM, Warrensburg, MO 64093, or call 1-660-543-4626. The department's web address is [www.ucmo.edu/ss](http://www.ucmo.edu/ss).

For admission information, call 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Occupational Safety and Health Major, B.S. Degree (43-276)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	CHEM 1104 Introduction to the Sciences: Chemistry	4
MATH 1111 College Algebra	3	ENGL 1030 Composition II	3
SAFE 1000 Exploring Safety Sciences	1	PSY 1100 General Psychology	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
PHYS 1104 Introduction to the Sciences: Physics	4	CHEM 1604 Elementary Organic & Biochemistry	4
SAFE 3000 Accident Causation & Prevention	3	SAFE 3430 Industrial Hazard Control	3
SAFE 3120 Introduction to Industrial Hygiene	3	SAFE 4160 Industrial Ventilation for Envir. Safety & Health	3
Departmentally Approved Elective	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	SAFE 4000 Ergonomics in Safety & Health	3
SAFE 4425 Safety & Health Legislation & Standards	3	SAFE 4020 Legal Aspects of Safety & Health	3
General Education	5-6	SAFE 4140 Safety & Health Lab	3
Departmentally Approved Elective	3	SAFE 4430 Workers Compensation Legislation	3
<b>Semester Total</b>	<b>15-16</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>		
SAFE 4990 Internship in Safety Sciences**	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
SAFE 4010 Accident Investigation	3	ICAP 4115 Safety & Health Management	3
SAFE 4035 Safety Program Management	3	SAFE 4435 Environmental Compliance	3
SAFE 4850 Industrial Fire Protection	3	SAFE 4560 Systems Safety	3
SAFE 4940 Statistical Analysis for Risk Management	3	Free Choice Elective	3
Free Choice Elective	2	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>14</b>		

**Occupational Safety and Health Major, B.S. Degree - 120 hours**

- \* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*SAFE 4990 Internship in Safety Sciences (3 hrs) is taken the summer after the junior year.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of English and Philosophy

# PHILOSOPHY

## BACHELOR OF ARTS DEGREE

The Philosophy major in the Department of English and Philosophy offers a Bachelor of Arts degree program. Philosophy majors are taught how to think, not what to think. Consequently they will be better able to meet societal needs for they will have the following knowledge and skills: conduct independent research, think, write, and communicate with clarity and precision, identify assumptions and presuppositions in their own and other's reasoning, problem solving skills in many different areas, make conceptual distinctions that others may not see, think logically, thus objectively, about social problems, which is important in an age of increasing technology in all areas. Furthermore, philosophy graduates are increasingly finding employment in the fields of finance, property development, health, social work and a wide array of government and private sector companies.

### About the Faculty

The Philosophy Program at UCM has 3 Ph.D. qualified faculty members with varied areas of specialization, one of whom also has a decade of clinical nursing experience. This

latter qualification is important to meet the demand for courses in applied ethics, such as biomedical ethics and business ethics. All of our faculty pursue their intellectual interests by research, publication, and presentations at regional, national, and international conferences. In addition, faculty encourage students to present their research at student philosophy conferences around the country. Our faculty are fully committed to students and this personal attention is embraced by UCM's 18 to 1 student-faculty ration. Students who major in philosophy will be assigned a faculty member to assist them in planning their degree program.

### Student Involvement

Philosophy students, owing to the nature of philosophical studies and its intersection with other disciplines, have numerous opportunities to actively participate in student organizations such as the Philosophy Club. The Philosophy Club is organized by students under the sponsorship of a faculty member. While the activities of the club are determined by the interests of the students involved, they generally

include such activities as discussion groups, reading groups, informal presentations of student and faculty research. In addition, because of varied nature of philosophical studies, students who have political interests may join the College Democrats or College Republicans organizations; students interested in issues in the philosophy of mind might consider joining the Psychology Club; students interested in philosophy of religion might join any of the several religious clubs on campus.

### To Learn More

For more information write to the Philosophy Program, Department of English and Philosophy, Martin Building, UCM, Warrensburg, MO, 64093; phone 660-543-4425, or visit the Philosophy Program's web site at [ucmo.edu/englphil/philosophy.cfm](http://ucmo.edu/englphil/philosophy.cfm).

The Office of Admissions in Ward Edwards 1400 can be reached by phone at 877-SAY-UCMO (877-729-8266) or on the web at [www.ucmo.edu](http://www.ucmo.edu).

**Philosophy Major, B.A. Degree (42-325)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PHIL 1000 Introduction to Philosophy	3	PHIL 2300 Ethics	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
PHIL 1400 Deductive Logic or PHIL 1410 Critical Thinking	3	ENGL 2220 World Masterpieces*	3
PHIL 3130 History of Philosophy II: Enlightenment Thought	3	PHIL 3120 History of Philosophy I: Ancient Thought	3
General Education	3	General Education	6
Free Choice Electives	6	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
PHIL 3600 Special Topics in Philosophy	3	PHIL 3660 Studies in Literature & Philosophy	3
PHIL Major Elective***	3	PHIL Major Elective***	3
General Education	3	General Education	3
Free Choice Electives	6	Free Choice Electives	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
PHIL 4710 Philosophy of Religion	3	PHIL 4250 Special Projects in Philosophy	3
General Education (IGEN/ICAP)	3	Free Choice Electives	12
Free Choice Electives	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Philosophy Major, B.A. Degree - 120 hours**

- \*Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Six hours of PHIL Major Electives are required. See the 2011 Undergraduate Catalog for list of appropriate choices.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

School of Technology

# PHOTOGRAPHY

## BACHELOR OF SCIENCE DEGREE

The Bachelor of Science degree in photography at the University of Central Missouri is a comprehensive program of study designed to prepare individuals for success in the highly competitive field of professional imaging. This encompasses a diverse array of associated disciplines ranging across the creative and managerial domains. Graduates are trained image makers that have developed a highly refined visual literacy, steeped in both the aesthetic and technical.

### Career Opportunities

Avenues of future employment include professional photographers, digital imaging specialists, managers, sales representatives, estimators, production planners, customer service representatives and production supervisors in the photography industry and allied fields. Employers indicate that the university's photography graduates learn fast, are reliable and creative, and are able to adapt as skilled photographers and productive decision makers. UCM photography graduates have careers in custom photo labs and digital imaging service bureaus, in-house photo operations for businesses, as public relations and commercial advertising, fashion and product photographers, operating their own photographic studios, as photojournalists, bio-medical photographers, and photo retail store owners. They are also in a number of other areas ranging from teaching photography in high school and universities to shooting photos aboard cruise ships and for the CIA.

### State-of-the-Art Facilities

The photography classrooms and laboratories at UCM are comprehensive and well-equipped for instruction in all aspects of professional imaging. Using current computers and printers, students learn contemporary digital image capture and manipulation, and more traditional laboratories are provided for learning the important fundamentals of film-based photography.

### About the Faculty

Students learn from experienced full-time faculty members who, in addition to being highly-skilled scholars and teachers, have worked as professionals in a variety of photographic areas. The university's 17 to 1 student-faculty ratio allows students to benefit from personalized attention. Faculty members are active in research, writing, image exhibitions, and they participate in workshops and seminars to stay current in their field.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. Photography students are eligible for membership in the UCM Photographic Society which, in addition to bringing top speakers in the field of photography to campus and providing other intellectual and social opportunities, produces an annual Photo Expo of student work. Valuable learning experiences also occur

outside the classroom. Professional meetings, workshops, and conventions offer additional technical information and creative outlets to UCM students. By participating in organizations such as American Society of Media Photographers and the Professional Photographers of Missouri, students are introduced to professionals in the field who may offer internships and employment.

### Scholarships

In addition to more than \$5 million in merit-based scholarships and awards offered each year by the university, photography students are eligible for departmental achievement scholarships. In addition, various Photography Area Scholarships are awarded periodically.

### To Learn More

For more information write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, call 660-543-4439, or visit the department's web site: [www.ucmo.edu/technology](http://www.ucmo.edu/technology).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Photography Major, B.S. Degree (43-228)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PHOT 1210 Foundations of Professional Photography	3	PHOT 1216 Photographer's Forum 1	1
PHOT 1211 Foundations of Technique & Critique	1	PHOT 2200 Editorial Photography	3
General Education	9	PHOT 2210 Introduction to Studio Techniques	3
<b>Semester Total</b>	<b>16</b>	General Education	6
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
PHOT 3230 Digital Imaging	3	PHOT 2216 Photographer's Forum 2	1
PHOT 3250 Portrait Photography	3	PHOT 2220 Photographic Materials & Processes	3
General Education	9	General Education	12
<b>Semester Total</b>	<b>15-</b>	<b>Semester Total</b>	<b>16</b>

<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
PHOT 2270 Conventional B&W Photography**	3	PHOT 3216 Photographer's Forum 3***	1
Photography Specialty Area Elective	3	Photography Specialty Area Electives	6
General Education	3	Free Choice Electives	9
Free Choice Electives	6	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
PHOT 4200 Color Imaging	3	IGEN 3116 Creative Problem Solving	3
Photography Specialty Area Elective	3	PHOT 4216 Photographer's Forum 4	1
Free Choice Electives	9	PHOT 4252 Portfolio Photography	3
<b>Semester Total</b>	<b>15</b>	Photography Specialty Area Elective	3
		Free Choice Electives	5
		<b>Semester Total</b>	<b>15</b>

**Photography Major, B.S. Degree - 124 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered the semester indicated.
- \*\*\*Mid-Program Review is required before the conclusion of the 3rd Photographer's Forum.
- Students will choose an area of specialty from the following: Commercial, Media, Portrait, or Technical. Fifteen credit hours are required in the specialty area.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# PHYSICAL EDUCATION

BACHELOR OF SCIENCE DEGREE - OPTION 1 ELEMENTARY-SECONDARY CERTIFICATION K-12

Students who major in physical education may select a specialization in elementary-secondary physical education. The program is fully accredited through the Missouri Department of Elementary and Secondary Education (DESE), the National Association for Sport and Physical Education (NASPE) and the National Council for Accreditation of Teacher Education (NCATE).

The physical education teacher education program has strong practical experiences associated with coursework that provides students with real life experiences before they graduate. In addition to meeting rigorous academic standards, physical education teacher education majors must complete and pass the National Praxis Test in Physical Education and submit a professional portfolio to meet certification requirements.

During the final semester, candidates complete their student teaching experience in high-quality physical education programs typically within 60-70 miles of Warrensburg. All students are specially trained in the use of technology (heart rate monitors, PDA's, pedometers, grade book systems, web pages) specific to the discipline of physical education.

Physical education graduates from University of Central Missouri have more than a 90 percent placement rate in public and private schools.

### Scholarships

Scholarships are available to outstanding students majoring in physical education, including the Jessie B. Jutten Physical Education Scholarship, the M. Ruth Sevy Memorial Scholarship, the Clarence and Christine Whiteman Scholarship,

and the Dr. Robert Tompkins Memorial Scholarship, and the William and Dorothy Brewster Scholarship. There are Departmental Achievement Awards up to \$600 for incoming freshman students demonstrating academic superiority.

### About the Faculty

In addition to a wide a range of academic and professional experience, 90 percent of the department's faculty members have earned doctorates in their fields. Active research, workshops and seminars keep faculty members current in their disciplines.

### Student Organizations

The Human Performance Club is designed to bring together students who have an interest in physical education and related fields, increasing their understanding of the various specialty areas in the profession.

### About the Department

The Department of Nutrition and Kinesiology's mission is to educate students, conduct research, and engage in public service activities that address the whole person, providing a wellness approach to living and learning. The department emphasizes technology in all areas of its curriculum, and students become well versed in the use of multimedia and electronic University Library & Research Skills. Courses are offered throughout Missouri via interactive television and other means of remote delivery. Students also learn to use specialized software to conduct nutritional analysis, front office operations and other

essential functions. They also develop Internet expertise through a wide variety of classroom and laboratory assignments.

### Special Facilities

Physical education students will benefit from the human performance laboratory located in Morrow 151. The lab is utilized for specific classes in several of the department's curricula. Students have the opportunity to assist with many of the research projects conducted in the facility. The lab is equipped with a ParvoMedics diagnostic metabolic system, Peak Motus video digitizing system, Kistler mobile force platform, a Life Measurement BOD POD, 12-lead ECG monitoring system, research grade treadmill, mechanical and electromechanically braked cycle ergometers, spirometer for pulmonary function assessment, pulse oximeter, bone densitometer, lactate analyzer, and various flexibility and muscle strength assessment devices.

### To Learn More

For more information about majoring in physical education at Central Missouri, write to the Department of Nutrition and Kinesiology, Morrow 125, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's web page at [www.ucmo.edu/kinesiology](http://www.ucmo.edu/kinesiology).

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's web address is [www.ucmo.edu](http://www.ucmo.edu).

**Physical Education Major - Option 1 Elementary-Secondary Certification K-12, B.S. Degree (43-01817)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>HIST 1350 or 1351 History of the U.S.</i></b>	3	PE 1450 Growth & Development in Elementary PE	3
PE 1100 Physical Educ. Orientation, History, & Philosophy	2	PE 1800 Human Anatomy	3
PE 1206 Lifetime Fitness	3	<b><i>General Education Science w/lab</i></b>	4
<b><i>General Education MATH</i></b>	3	General Education	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
EDFL 2100 Foundations of Education	2	EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Child	2
FLDX 2150 Introductory Field Experience	1	PE 2800 Biomechanics	3
EDFL 2240 Educational Psychology	3	POLS 1510 American Government	3
PE 2100 Foundations of Teaching Physical Education	3	General Education	9
General Education	8	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>17</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
PE 2450 Motor Learning and Control	3	EDFL 4210 Teaching of Reading in Sec. School	2
PE 2850 Foundations of Exercise Physiology	3	PE 3320 Analysis & Teaching of Elementary Skills	3
PE 3310 Analysis & Teaching of Physical Training	3	PE 3330 Analysis & Teaching of Secondary Skills	3
PE 3610 Care & Prevention of Injuries	2	PE 3340 Analysis & Teaching of Lifetime Activities	3
PE 4340 Adapted Physical Education	3	PE 4740 Legal Liability in F/W, PE, Rec. & Sport Settings	2
PSY 4230 Psychology of Adolescence	3	PE 4830 Psychological Aspects of Physical Education	2
<b>Semester Total</b>	<b>17</b>	PE 4840 Social Aspects of Physical Activity	2
		<b>Semester Total</b>	<b>17</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester*</b>	<b>Hrs.</b>
PE 3500 Teaching and Management in PreK-12 Phys. Educ.	3	FLDX 4495 Student Teaching Elementary I	5
PE 3550 Practicum in PreK-12 Physical Education	1	ICAP 4468 Student Teaching Secondary II	4
PE 4450 Tech. of Teaching PE Activities in the Elem. Sch.	3	PE 4880 Methods of Teaching Physical Education	2
PE 4460 Tech. of Teaching PE Act. in Middle Sch. & HS	3	PE 4885 Secondary Field Experience	1
PE 4760 Curriculum & Assessment in Physical Education	4	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>14</b>		

**Physical Education Major - Option 1 Elementary-Secondary Certification K-12, B.S. Degree  
124 hours**

- \*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# PHYSICAL EDUCATION

BACHELOR OF SCIENCE DEGREE - OPTION 2 FITNESS/WELLNESS I (CORPORATE FITNESS)

During the past 20 years, there has been a continual growth in the fitness and health promotion industry. As a result of this growth, alternate careers within physical education have increased in popularity and viability. University of Central Missouri is helping to meet needs for these new professionals by offering a program of study in corporate fitness. Coursework has been designated to relate directly to the needs of fitness and wellness professionals.

### Opportunities for Graduates

Agencies are now publishing data which indicate they have healthier employees and verify that their fitness and health promotion programs have provided cost saving in medical expenses and employee absenteeism. It is anticipated that corporations, hospitals and communities will expand fitness and wellness programs in the future. As a result, there will be an increase in demand for better educated and qualified professionals in fitness and wellness, and programs preparing students for careers in corporate fitness are vital to the state, region and nation. A graduate in corporate fitness is well prepared to function as an exercise leader, exercise specialist, wellness instructor, fitness specialist, and or personal trainer in a hospital, private, corporate or non-profit agency.

### About the Faculty

In addition to a wide range of academic and professional experience, 90 percent of the department's faculty members have earned doctorates in their fields. Active research, workshops and seminars keep faculty members current in their disciplines.

### Student Organizations

The Human Performance Club is designed to bring together students

who have an interest in physical education and related fields, increasing their understanding of the various specialty areas in the profession.

### About the Department

The Department of Nutrition and Kinesiology's mission is to educate students, conduct research, and engage in public service activities that address the whole person, providing a wellness approach to living and learning. The department emphasizes technology in all areas of its curriculum, and students become well versed in the use of multimedia and electronic University Library & Research Skills. Courses are offered throughout Missouri via interactive television and other means of remote delivery. Students learn to use specialized software to conduct nutritional analysis, front office operations and other essential functions. They also develop Internet expertise through a wide variety of classroom and laboratory assignments.

### Facilities

Corporate fitness students will benefit from the human performance laboratory located in Morrow 151. The lab is utilized for specific classes in several of the department's curricula. Students have the opportunity to assist with many of the research projects conducted in the facility. The lab is equipped with a ParvoMedics diagnostic metabolic system, Peak Motus video digitizing system, Kistler mobile force platform, 12-lead ECG monitoring system, a Life Measurement BOD POD, research grade treadmill, mechanical and electromechanically braked cycle ergometers, spirometer for pulmonary function assessment, pulse oximeter, bone densitometer, lactate analyzer, and various body

composition, flexibility and muscle strength assessment devices.

### Internships

Internships are completed as part of the program requirements and are typically performed during the student's last or next-to-last academic semester. Recently, UCM students have interned in hospitals, corporate fitness facilities, fitness centers, government agencies as well as with college and professional sports teams.

### Scholarships

Several departmental scholarships are awarded to students in the program who have shown strong grade point average, leadership, and in specific scholarship applications, can demonstrate financial need. Awards include the Jessie B. Jutten Physical Education Scholarship, M. Ruth Sevy Memorial Scholarship, Clarence and Christine Whiteman Scholarship, Dr. Robert Tompkins Memorial Scholarship and the William and Dorothy Brewster Scholarship. Department Achievement Awards up to \$600 are awarded to incoming freshman students demonstrating academic superiority.

### To Learn More

For more information about this physical education major, write to the Department of Nutrition and Kinesiology, Morrow 125, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's web page at [www.ucmo.edu/kinesiology](http://www.ucmo.edu/kinesiology).

For admission information, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Physical Education Major - Option 2 Fitness/Wellness I (Corporate Fitness), B.S. Degree (43-02817)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PE 1100 Physical Educ. Orientation, History, & Philosophy	2	PE 1204 Stress Management	1
PE 1206 Lifetime Fitness	3	General Education	12
General Education	6	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>14</b>		
AE 1400 Freshman Seminar*	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
HED 1350 Responding to Emergencies	3	ACCT 2101 Principles of Financial Accounting	3
PE 3310 Analysis & Teaching of Physical Training	3	PE 2850 Foundations Exercise Physiology	3
PE 1800 Human Anatomy	3	PE 3610 Care & Prevention of Injuries	2
General Education	6	PSY 1100 General Psychology	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
BLAW 2720 Legal Environment of Business	3	HED 4300 Nutrition & Human Performance	2
MKT 3405 Marketing Policy	3	MKT 3420 Principles Advertising	3
PE 2800 Biomechanics	3	PE 4341 Physical Activity & the Older Adult	2
PE 4340 Adapted Physical Education	3	PE 4740 Legal Liability in F/W, PE, Rec., & Sport Settings	2
PE 4850 Assessment & Evaluation of Fitness/Wellness	3	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
HED 4310 Drugs and Youth	3	PE 4765 Internship**	2-4
MKT 3430 Professional Sales	3	Free Choice Electives	10-12
PE 4860 Fitness Programming & Implementation	3	<b>Semester Total</b>	<b>14</b>
General Education (IGEN/ICAP)	3		
Free Choice Electives	2		
<b>Semester Total</b>	<b>14</b>		

**Physical Education Major - Option 2 Fitness/Wellness I (Corporate Fitness), B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*The internship can also be taken the semester after all other coursework is completed.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Nutrition and Kinesiology

# PHYSICAL EDUCATION

BACHELOR OF SCIENCE DEGREE - OPTION 3 FITNESS/WELLNESS II (EXERCISE SCIENCE)

During the past 20 years, there has been a continual growth in the fitness and health promotion industry. As a result of this growth, alternate careers within physical education have increased in popularity and viability. University of Central Missouri is helping to meet needs for these new professionals by offering a program of study in corporate fitness. Coursework has been designated to relate directly to the needs of fitness and wellness professionals.

### Opportunities for Graduates

Agencies are now publishing data which indicate they have healthier employees and verify that their fitness and health promotion programs have provided cost saving in medical expenses and employee absenteeism. It is anticipated that corporations, hospitals and communities will expand fitness and wellness programs in the future. As a result, there will be an increase in demand for better educated and qualified professionals in fitness and wellness, and programs preparing students for careers in corporate fitness are vital to the state, region and nation. A graduate in exercise science is well prepared to function as an exercise leader, exercise specialist, wellness instructor, fitness specialist, and or personal trainer in a hospital, private, corporate or non-profit agency. Graduates may also consider pursuing graduate work or professional schools such as occupational therapy, physical therapy, or physician's assistant.

### About the Faculty

In addition to a wide a range of academic and professional experience, 90 percent of the department's faculty members have earned doctorates in their fields. Active research, workshops and seminars keep faculty members current in their disciplines.

### Student Organizations

The Human Performance Club is designed to bring together students who have an interest in physical education and related fields, increasing their understanding of the various specialty areas in the profession.

### About the Department

The Department of Nutrition and Kinesiology's mission is to educate students, conduct research, and engage in public service activities that address the whole person, providing a wellness approach to living and learning. The department emphasizes technology in all areas of its curriculum, and students become well versed in the use of multimedia and electronic University Library & Research Skills. Courses are offered throughout Missouri via interactive television and other means of remote delivery. Students learn to use specialized software to conduct nutritional analysis, front office operations and other essential functions. They also develop Internet expertise through a wide variety of classroom and laboratory assignments.

### Facilities

Exercise science students will benefit from the human performance laboratory located in Morrow 151. The lab is utilized for specific classes in several of the department's curricula. Students have the opportunity to assist with many of the research projects conducted in the facility. The lab is equipped with a ParvoMedics diagnostic metabolic system, Peak Motus video digitizing system, Kistler mobile force platform, 12-lead ECG monitoring system, a Life Measurement BOD POD, research grade treadmill, mechanical and electromechanically braked cycle ergometers, spirometer

for pulmonary function assessment, pulse oximeter, bone densiometer, lactate analyzer, and various body composition, flexibility and muscle strength assessment devices.

### Internships

Internships are completed as part of the program requirements and are typically performed during the student's last or next-to-last academic semester. Recently, UCM students have interned in hospitals, corporate fitness facilities, fitness centers, doctors' offices, government agencies as well as with college and professional sports teams.

### Scholarships

Several departmental scholarships are awarded to students in the program who have shown strong grade point average, leadership, and in specific scholarship applications, can demonstrate financial need. Awards include the Jessie B. Jutten Physical Education Scholarship, M. Ruth Sevy Memorial Scholarship, Clarence and Christine Whiteman Scholarship, Dr. Robert Tompkins Memorial Scholarship, and the William and Dorothy Brewster Scholarship. Department Achievement Awards up to \$600 are awarded to incoming freshman students demonstrating academic superiority.

### To Learn More

For more information about this physical education major, write to the Department of Nutrition and Kinesiology, Morrow 125, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's web page at [www.ucmo.edu/kinesiology](http://www.ucmo.edu/kinesiology).

For admission information, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Physical Education Major - Option 3 Fitness/Wellness II (Exercise Science), B.S. Degree (43-03817)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
CHEM 1104 Introduction to the Sciences: Chemistry*	4	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	PE 1800 Human Anatomy	3
PE 1100 Physical Educ. Orientation, History, & Philosophy	2	General Education	9
PE 1206 Lifetime Fitness	3	<b>Semester Total</b>	<b>15</b>
SOC 1800 General Sociology	3		
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	BIOL 2402 Anatomy & Physiology II	4
HED 1350 Responding to Emergencies	3	PE 2850 Foundations Exercise Physiology	3
PE 1204 Stress Management	1	PE 3310 Analysis & Teaching of Physical Training	3
General Education	8	PE 3610 Care & Prevention of Injuries	2
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
D&N 3340 Nutrition	3	CHEM 1604 Elementary Organic & Biochemistry (4 hrs) or	
HED 4310 Drugs & Youth	3	PHYS 1104 Introduction to the Sciences: Physics	
PE 2800 Biomechanics	3	(4 hrs) or EDCI 1310 Physics for Teachers (3 hrs)	3-4
PE 4340 Adapted Physical Education	3	PE 4341 Physical Activity & the Older Adult	2
PE 4850 Assessment & Evaluation Fitness/Wellness	3	PE 4740 Legal Liability in F/W, PE, Rec., & Sport Settings	2
<b>Semester Total</b>	<b>15</b>	PSY 4520 Statistics for the Behavioral Sciences	3
		General Education	3
		Free Choice Electives	2
		<b>Semester Total</b>	<b>15-16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
HED 4300 Nutrition & Human Performance	2	PE 4765 Internship***	2-4
PE 4860 Fitness Program & Implementation	3	General Education (IGEN/ICAP)	3
General Education	3	Free Choice Electives#	5-8
Free Choice Electives	8	<b>Semester Total</b>	<b>12-13</b>
<b>Semester Total</b>	<b>16</b>		

**Physical Education Major - Option 3 Fitness/Wellness II (Exercise Science), B.S. Degree - 120 hours**

- \*CHEM 1104, while not specifically required in the major, is a prerequisite for D&N 3340 and CHEM 1604 (if opted). This course also meets a general education requirement.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*The internship can also be taken the semester after all other coursework is completed.
- #The number of free choice electives required will depend on selections made in the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# PHYSICS

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

Science students who would like to become teachers may earn a Bachelor of Science in Education degree in physics, which provides certification to teach all levels of physics in grades 9-12.

The physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience. All teacher education programs are accredited by the National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education.

### About the Faculty

Active research, workshop and seminar participation keeps physics and chemistry faculty members current with the ever-advancing field of science. In addition to a wide range of academic and professional experience, all faculty members in Biochemistry, Chemistry & Physics have earned doctorates in their fields of expertise.

The department's caring and experienced faculty members support individualized attention for their students, and the university's low student to faculty ratio allows for such personalized activity. Classroom learning is reinforced through practical laboratory experiences, and the use of instrumentation is emphasized.

### Facilities

The offices of Biochemistry, Chemistry & Physics are located in the W. C. Morris Science Building. The facilities include areas for general instructional use, audio-visual facilities, a library study area and modern laboratories in various areas of specialization. The department also has modern, well-equipped computer laboratories in chemistry and physics, as well as electronic classrooms for each discipline.

### Student Involvement

Students are encouraged to supplement their academic programs through participation in campus organizations of special professional, service and academic interest. The Society of Physics Students and the American Chemical Society provide opportunities for members to have personal and informal association with the chemistry and physics faculty outside the classroom. The societies meet regularly, sponsor lectures on contemporary science topics, and provide avenues of participation for campus activities.

Students who merit academic recognition may be invited to join one or more of the honorary societies in science, such as Sigma Pi Sigma.

Students are considered for employment as laboratory or department assistants after completion

of a minimum amount of training and study. This opportunity provides valuable teaching, research and technical experience.

### To Learn More

For more information call 660-543-4948, or visit the website at [www.ucmo.edu/chemphys](http://www.ucmo.edu/chemphys).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Physics Major, B.S. in Ed. Degree (41-486)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
<b>CHEM 1131 General Chemistry I*</b>	5	CHEM 1132 General Chemistry II	5
<b>ENGL 1020 Composition I</b>	3	CS 1100 Computer Programming I	3
<b>MATH 1151 Calculus &amp; Analytical Geometry I*</b>	5	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>13</b>	MATH 1152 Calculus & Analytical Geometry II	5
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 1005 Introduction to Environmental Science	3	<b>HIST 1350 OR 1351 History of the United States</b>	3
CTE 2000 Technology & Society	3	PHYS 1102 Coll. Physics II or PHYS 2122 Univ. Physics II	4-5
EDFL 2100 Foundations of Education	2	PHYS 3020 Special Topics in Physics (Astronomy)	3
FLDX 2150 Introductory Field Experience	1	POLS 1510 American Government	3
EDFL 2240 Educational Psychology	3	General Education (Oral Communication - must earn C or higher)	3
PHYS 1101 College Physics I or PHYS 2121 Univ. Physics I	4-5	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>16-17</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1110 Prin. of Biology or BIOL 1111 Plant Biology	3-4	EASC 1004 Introduction to the Sciences: Geology or EASC 3114 Meteorology	3-4
PHYS 4411 Thermodynamics or CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics	3-4	EDFL 4210 Teaching Reading in Secondary	2
EDFL 4300 Educational Measurement & Evaluation	2	PHYS 3080 Advanced Physics Lab and PHYS 3511 Modern Physics I or CHEM 4532 Physical Chemistry: Quantum Mechanics & Spectroscopy	4
EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Child	2	PSY 4230 Psychology of Adolescence	3
General Education	6	General Education	
<b>Semester Total</b>	<b>16-18</b>	<b>Semester Total</b>	<b>15-16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester***</b>	<b>Hrs</b>
EDFL 3500 Secondary Teaching & Behavioral Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
PHYS 3020 Special Topics in Physics or PHYS 4911 Special Problems in Physics	1-3	PHYS 4080 Teaching Secondary Science	3
PHYS 4050 Science Teaching Methods	3	<b>Semester Total</b>	<b>12</b>
General Education	6		
Free Choice Elective**	0-1		
<b>Semester Total</b>	<b>14-17</b>		

**Physics Major, B.S. in Ed. Degree - 120 hours**

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, you will not need any additional free choice electives to reach the minimum hours required for graduation (120).
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Arts, Humanities and Social Sciences

Department of Government, International Studies, and Languages

# POLITICAL SCIENCE

## BACHELOR OF ARTS DEGREE

There is more to political science than determining the winner of the next election. Careers for graduates from University of Central Missouri's Department of Government, International Studies, and Languages vary from law and politics to positions in government service, education, military, journalism, public administration and private industry.

Political science programs at UCM offer a balanced curriculum of classroom studies and practical experience. The undergraduate programs are broad and include courses in areas such as national and state government institutions, international relations, political parties and interest groups, public law and the judicial process, comparative government and politics, as well as political theory, public opinion, public policy, international law, foreign policy, data analysis, public administration, constitutional rights and municipal politics and administration.

### About the Faculty

Political science courses are taught by experienced and dynamic faculty members who believe in individualized attention for their

students. This personal approach is enhanced by UCM's 18 to 1 student-faculty ratio. Upon declaring a major in the Department of Government, International Studies, and Languages, students may request that a faculty adviser personally assist them in planning their program. In addition to a wide range of academic and professional experience, all of the department's faculty members have earned doctorates in their fields. Faculty members stay current with their profession through research, writing and participation in regional, national and international conferences.

### Student Involvement

Political science students have many opportunities to become involved on Central Missouri's campus, including membership in the Political Science Students Association, an organization that helps members further their professional interests, and the Pre-Law Student Association, an organization that helps members prepare for law school. Qualified students may also pursue membership in Pi Sigma Alpha, the department's honor organization in political science. Students who are active

politically may want to join the College Democrats or College Republicans, organizations that develop political awareness and stimulate interest in governmental affairs. The department also offers internships to qualified political science students, allowing them to gain practical experience working within various governmental and political units. Stipends are provided by some participating agencies.

### To Learn More

For more information, write to the Department of Government, International Studies, and Languages, Wood Building, Suite 5, UCM, Warrensburg, MO 64093; call 660-543-8948; or visit the department's Web site at [www.ucmo.edu/politicalscience](http://www.ucmo.edu/politicalscience).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Political Science Major, B.A. Degree (42-425)**

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<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> -Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
POLS 1500 Introduction to Politics	3	POLS 1510 American Government	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
POLS Elective***	3	POLS 2540 Survey of Political Theory	3
Modern Language Requirement*	3	POLS Elective***	3
General Education	9-10	General Education	9
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
POLS Elective***	3	POLS 3560 Research Methods in Political Science	3
General Education	3	POLS Concentration Area Elective	3
Free Choice Electives	9	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
POLS Concentration Area Elective	3	POLS 4601 Senior Seminar in Political Science	1
POLS Elective***	3	POLS Concentration Area Elective	3
General Education (IGEN/ICAP)	3	Free Choice Electives	10-11
Free Choice Electives	6	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>15</b>		

**Political Science Major, B.A. Degree – 120 hours**

- \*See the current catalog for B.A. Degree fulfillment options. This plan is based on nine hours of modern language.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*For the 12 hours of POLS Electives students must take one class from each of the three areas not chosen for their area of concentration, excluding POLS 1244, 4590, 4591, and 4592.
- Students must earn 12 hours of upper level credits (3000/4000) in the major and 30 hours of upper level credits overall to meet graduation requirements. Make choices in the major electives accordingly.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Government, International Studies, and Languages

# POLITICAL SCIENCE

## BACHELOR OF SCIENCE DEGREE

There is more to political science than determining the winner of the next election. Careers for graduates from University of Central Missouri's Department of Government, International Studies, and Languages vary from law and politics to positions in government service, education, military, journalism, public administration and private industry.

Political science programs at UCM offer a balanced curriculum of classroom studies and practical experience. The undergraduate programs are broad and include courses in areas such as national and state government institutions, international relations, political parties and interest groups, public law and the judicial process, comparative government and politics, as well as political theory, public opinion, public policy, international law, foreign policy, data analysis, public administration, constitutional rights and municipal politics and administration.

### About the Faculty

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students. This personal approach is enhanced by UCM's 18 to 1 student-faculty ratio. Upon declaring a major in the Department of Government, International Studies, and Languages, students may request that a faculty adviser personally assist them in planning their program. In addition to a wide range of academic and professional experience, all of the department's faculty members have earned doctorates in their fields. Faculty members stay current with their profession through research, writing and participation in regional, national and international conferences.

### Student Involvement

Political science students have many opportunities to become involved on Central Missouri's campus, including membership in the Political Science Students Association, an organization that helps members further their professional interests, and the Pre-Law Student Association, an organization that helps members prepare for law school. Qualified students may also pursue membership in Pi Sigma Alpha, the department's honor organization in political science. Students who are active

politically may want to join the College Democrats or College Republicans, organizations that develop political awareness and stimulate interest in governmental affairs. The department also offers internships to qualified political science students, allowing them to gain practical experience working within various governmental and political units. Stipends are provided by some participating agencies.

### To Learn More

For more information, write to the Department of Government, International Studies, and Languages, Wood Building, Suite 5, UCM, Warrensburg, MO 64093; call 660-543-8948; or visit the department's Web site at [www.ucmo.edu/politicalscience](http://www.ucmo.edu/politicalscience).

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu).

**Political Science Major, B.S. Degree (43-426)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> -Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
POLS 1500 Introduction to Politics	3	POLS 1510 American Government	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
POLS Elective**	6	POLS 2540 Survey of Political Theory	3
General Education	9-10	POLS Elective**	3
<b>Semester Total</b>	<b>15-16</b>	General Education	6
		Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
POLS Elective**	3	POLS 3560 Research Methods	3
General Education	3	POLS Concentration Area Elective	3
Free Choice Electives	9	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
POLS Concentration Area Electives	3	POLS 4601 Senior Seminar in Political Science	1
General Education	3	POLS Concentration Area Elective	3
Free Choice Electives	9	Free Choice Electives	10-11
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14-15</b>

**Political Science Major, B.S. Degree – 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*For the 12 hours of POLS Electives students must take one class from each of the three areas not chosen for their area of concentration, excluding POLS 1244, 4590, 4591, and 4592.
- Students must earn 12 hours of upper level credits (3000/4000) in the major and 30 hours of upper level credits overall to meet graduation requirements. Make choices in the major electives accordingly.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## Harmon College of Business and Professional Studies

Department of Aviation

# PROFESSIONAL PILOT

BACHELOR OF SCIENCE DEGREE

The Department of Aviation offers a Bachelor of Science degree with a major in professional pilot. The mission of the Professional Pilot Program is to provide our graduates with the skills, knowledge, and attitudes required for a successful flying career in the aviation industry. Our graduates possess flying skills and aeronautical knowledge that far exceeds the requirements of the Federal Aviation Administration (FAA). This program has been accredited by the Aviation Accreditation Board International (AABI).

### Internships

Professional Pilot students may apply for an internship to utilize classroom and laboratory principles and theories in actual work situations. Internships are normally scheduled during the last half of an undergraduate program or during graduate work. Students earn from one to nine semester hours of credit upon completion of an internship. Internships may be arranged with airlines, manufacturers, airports or government agencies depending on interests and career goals of students.

### Facilities and Equipment

The Department of Aviation has some of the finest facilities available to prepare students for positions in aviation both on campus and at UCM's Max B. Swisher Skyhaven Airport. The university owns 26 flight-ready aircraft including: a fleet of Cessna 172 Skyhawks, multi-engine aircraft, and gliders are available for flight training. In addition, the

university has a hot-air balloon, which may be used to earn a rating.

The department's flight simulation equipment includes several general aviation flight training devices: a single engine, a single/multi engine both with visual systems, and two advanced aviation training devices. A 737NG Flight Training Device is to be installed in the TR Gaines Technology Building in the spring of 2009. The device will expose students to realistic air carrier training scenarios and environment.

### Student Involvement

Several student organizations exist in the department to enhance the development of special interests and talents of students. Alpha Eta Rho, a national aviation fraternity, is dedicated to the professional development of students majoring in aviation. A Chapter of Women in Aviation International (WAI) is a professional organization that promotes training and career awareness.

The Intercollegiate Flight Team, which promotes excellence in flight performance, competes at both regional and national levels. Students who are interested in airport management can join the local chapter of the American Association of Airport Executives.

### Special Services

A number of special aviation services are offered at Central Missouri, including an introductory course in aeronautics and a summer aerospace education class for elementary and secondary teachers. Special training programs and classes are also taught by UCM faculty to serve the aviation industry. FAA computerized tests with immediate results are available through the department's LaserGrade testing center.

### Career Opportunities

Depending on their interests and areas of specialization, graduates have a variety of job opportunities. Careers for pilots include those with airlines, corporate flight departments, general aviation and military.

### Scholarships

In addition to nearly \$5 million in scholarships provided through a variety of merit-based university scholarship programs, the Department of Aviation also offers an Achievement Award for students displaying exceptional talent in aviation areas.

### To Learn More

For more information about programs in aviation at UCM, write to the Department of Aviation, UCM, Warrensburg, MO 64093, call 660-543-4969, or visit the department's web site at [www.ucmo.edu/aviation](http://www.ucmo.edu/aviation). For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Professional Pilot Major, B.S. Degree (43-554)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 1020 Aeronautics	2	AVIA 1321 Private Flight B	1
AVIA 1310 FAA Private Requirements	4	AVIA 3310 Commercial Flight A	1
AVIA 1320 Private Flight A	1	AVIA 3311 Commercial Flight B	1
AVIA 2310 Propulsion Systems	3	AVIA 3340 Aircraft Systems & Computers	3
BTE 1210 Essentials of Managing Information or LIS 1600 University Library & Research Skills	2	ECON 1010 Principles of Macroeconomics	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
<b>Semester Total</b>	<b>15</b>	MATH 1111 College Algebra	3
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 3313 FAA Instrument Flight A	1	AVIA 3305 FAA COM Regulations	3
AVIA 3314 Instrument Flight B	1	AVIA 3312 Commercial Flight C	1
AVIA 3325 FAA Instrument Requirements	4	AVIA 3315 Commercial Flight D	1
AVIA 4420 Air Transportation	3	AVIA 4350 Aviation Weather or EASC 3114 Meteorology	3
General Education	6	PHYS 1104 Introduction to the Sciences: Physics	4
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 3316 Commercial Flight E	1	AVIA 3317 Commercial Flight F	1
AVIA 4010 Aerodynamics	3	AVIA 3330 Multi Engine	1
AVIA 4220 Transport Aircraft Systems	2	AVIA 4500 Aviation Safety	3
MATH 1131 Applied Calculus	3	CTE 3060 Technical Writing	3
ATM 4032 Hydraulics/Pneumatics	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
AVIA 4040 Aviation Management	3	AVIA 4090 Aviation Law	3
AVIA 4320 Physiology & Flying	2	ICAP 4113 Air Operations Management	3
AVIA 4370 Advanced Flight Crew Management	3	General Education	6
AVIA 4390 Part 135 OPS	3	Free Choice Electives*	2
MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3	<b>Semester Total</b>	<b>14</b>
General Education	3		
<b>Semester Total</b>	<b>17</b>		

**Professional Pilot Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

Department of Psychological Science

# PSYCHOLOGY

## BACHELOR OF ARTS DEGREE

The Bachelor of Arts degree in Psychology offers a balanced curriculum of classroom studies and practical experiences. The department has established four laboratories which include Neurocognition (EEG and psychophysiology), Behavioral Medicine and Biofeedback (behavioral analysis, learning, and relaxation), Experimental Psychology (social and cognitive studies) and Virtual Reality (addiction research and treatment of anxiety and phobic disorders).

To promote scholarship and research activities, the department maintains collaborative relationships with other universities, selected government agencies, and local schools. Whenever possible, students are encouraged to participate in faculty research projects on a voluntary basis. During 2010, there were ten faculty-student co-authored articles that appeared in professional journals.

### About the Faculty

The student-faculty ratio at UCM is about 17 to 1, which allows for personalized attention for each student. In addition to a wide range of academic and professional experience, all members of the department's tenured faculty have earned doctorates and participate in research, workshops, and seminars. Faculty members also regularly publish research articles, book chapters, and abstracts, as well as submit grant proposals to internal and external funding sources and make research presentations at conventions of major psychological associations/societies.

### Student Involvement

There are many ways for students to become involved with psychology

at UCM. Membership in student organizations provides an avenue for active participation with the community, and other psychology students and faculty.

The Psychology Club brings together students who have an interest in the field and facilitates, maintains, and expands student-faculty interactions. Qualified students may be invited to become members of Psi Chi, the psychology honor society. This organization was established to promote and sustain educational excellence in the study of psychology and related areas.

Students are also encouraged to work with faculty on research papers and presentations. Each year, students present their faculty sponsored research at the Great Plains Psychology Students' Conference and Central Scholars Symposium as well as at major professional conventions such as the American Psychological Association, and Association for Psychological Science.

### Career Opportunities

Students with an undergraduate degree in psychology pursue careers with government agencies, private industry or educational institutions. Most employers look for individuals with good analytical abilities, a working knowledge of statistical software packages and effective written and verbal communication skills.

Employers also seek out psychology majors because most have well-developed interpersonal skills and are interested in working with people. Many graduates work in the fields of mental health, rehabilitation, geriatric care, applied research or corrections. However, employers are often interested in hiring psychology majors for positions in sales, banking,

insurance, and management. A number of industries and government agencies recruit psychology majors and train them for specific jobs, most with potential for advancement. A significant number of graduates pursue doctoral studies in clinical psychology, counseling psychology, school psychology, or experimental psychology and at least two enter law school each year.

### Placement

Central Missouri's Office of Career Services can help students who seek employment, as well as serve officials of business, government, industry and education who seek prospective employees. Interviews are conducted on campus throughout the year.

### Scholarships

In addition to \$5 million in university scholarships presented to Central Missouri students each year, the department offers the Jerome M. Sattler Endowment Research Awards, Psychology Department Tuition Awards, the Arthur John Ter Keurst and Robert N. Higgins Scholarships.

### To Learn More

For more information write to the Department of Psychological Science, Lovinger 1111, UCM, Warrensburg,

MO 64093, or call 660-543-4185. For admission information, call 877-SAY-UCMO (877-729-8266).

Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu) and the department's pages begin at [www.ucmo.edu/psychology/](http://www.ucmo.edu/psychology/).

**Psychology Major, B.A. Degree (42-746)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PSY 1000 Orientation to Psychology	1	Modern Language Requirement*	3
PSY 1100 General Psychology	3	General Education	9
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
<b>Semester Total</b>	<b>16</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
PSY 2110 Research Design & Analysis I (fall only)**	4	PSY 2120 Research Design & Analysis II (spring only)**	4
Modern Language Requirement*	3	PSY 2130 Learning	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	2
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
PSY 3130 Physiological Psychology	4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
General Education	3	Free Choice Electives	9
Free Choice Electives	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
Free Choice Electives	11	General Education (IGEN/ICAP)	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives	8
		<b>Semester Total</b>	<b>14</b>

**Psychology Major, B.A. Degree - 120 hours**

- \*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses.
- \*\*These courses are only offered during the semesters indicated.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

Department of Psychological Science

# PSYCHOLOGY

## BACHELOR OF SCIENCE DEGREE

The Department of Psychological Science Bachelor of Science degree program offers a balanced curriculum of classroom studies and practical experiences. The department has established four laboratories which include Neurocognition (EEG and Psychophysiology), Behavioral Medicine and Biofeedback (Behavioral Analysis, Learning, and Relaxation), Experimental Psychology (Social and Cognitive studies) and Virtual Reality (Addictions research and treatment of anxiety and phobic disorders).

To promote scholarship and research activities, the department maintains collaborative relationships with other universities, selected government agencies, and local schools. Whenever possible, students are encouraged to participate in faculty research projects on a voluntary basis. During 2010, there were ten faculty-student co-authored articles that appeared in professional journals. A department computer laboratory is available to assist faculty and students with research studies, data analysis, and word processing.

### About the Faculty

The student-faculty ratio at UCM is about 17 to 1, which allows for personalized attention for each student. In addition to a wide range of academic and professional experience, all members of the department's tenured faculty have earned doctorates and participate in research, workshops, and seminars. Faculty members also regularly publish research articles, book chapters, and abstracts, as well as submit grant proposals to internal and external funding sources and makes research presentations at conventions of major psychological associations.

### Student Involvement

There are many ways for students to become involved with psychology at UCM. Membership in student organizations provides an avenue for active participation with the community, and other psychology students and faculty.

The Psychology Club brings together students who have an interest in the field and facilitates, maintains, and expands student-faculty interactions. Qualified students may be invited to become members of Psi Chi, the psychology honor society. This organization was established to promote and sustain educational excellence in the study of psychology and related areas.

Students are also encouraged to work with faculty on research papers and presentations. Each year, students present their faculty sponsored research at the Great Plains Psychology Students' Conference and Central Scholars Symposium as well as at major professional conventions such as the American Psychological Association, and Association for Psychological Science.

In recent years, our students have received awards for their poster and paper presentations. The Department of Psychological Science and UCM hosted the 26<sup>th</sup> annual Great Plains Students' Psychology Conference in March, 2006.

### Career Opportunities

Students with an undergraduate degree in psychology pursue careers with government agencies, private industry or educational institutions. Most employers look for individuals with good analytical abilities, a working knowledge of statistical software packages and effective written and verbal communication

skills. Employers also seek out psychology majors because most have well-developed interpersonal skills and are interested in working with people. Many graduates work in the fields of mental health, rehabilitation, geriatric care, applied research or corrections. However, employers are often interested in hiring psychology majors for positions in sales, banking, insurance, and management. A number of industries and government agencies recruit psychology majors and train them for specific jobs, most with potential for advancement. A significant number of graduates pursue doctoral studies in clinical psychology, counseling psychology, school psychology, or experimental psychology and at least two enter law school each year.

### Scholarships

In addition to \$5 million in university scholarships presented to Central Missouri students each year, the department offers the K. Dale Helmick Scholarship, Jerome M. Sattler Endowment Research Awards, Psychology Department Tuition Award, the Arthur John Ter Keurst and Robert N. Higgins Scholarships.

### To Learn More

For more information write to the Department of Psychological Science, Lovinger 1111, UCM, Warrensburg, MO 64093, or call 660-543-4185. For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page is [www.ucmo.edu](http://www.ucmo.edu) and the department's pages begin at [www.ucmo.edu/psychology/](http://www.ucmo.edu/psychology/).

**Psychology Major, B.S. Degree (43-747)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PSY 1000 Orientation to Psychology	1	General Education	12
PSY 1100 General Psychology	3	<b>Semester Total</b>	<b>15</b>
General Education	9		
<b>Semester Total</b>	<b>16</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
PSY 2110 Research Design & Analysis I (fall only)**	4	PSY 2120 Research Design & Analysis II (spring only)**	4
General Education	9	PSY 2130 Learning	3
Free Choice Electives	2	General Education	6
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	2
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
PSY 3130 Physiological Psychology	4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
General Education (IGEN/ICAP)	3	Free Choice Electives	9
Free Choice Electives	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
PSY Major Electives*	6	PSY Major Electives*	3
Free Choice Electives	5	Free Choice Electives	9
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

**Psychology Major, B.S. Degree - 120 hours**

- \*See the 2011 Undergraduate Catalog for a list of courses that fulfill major electives for the degree.
- \*\*These courses are only offered during the semesters indicated.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Communication and Sociology

# PUBLIC RELATIONS

## BACHELOR OF SCIENCE DEGREE

What do the following industries have in common: entertainment, sports, large and small companies, non-profit organizations, healthcare, higher education, government organizations, aviation, financial institutions, creative agencies? The answer: They all employ UCM public relations graduates.

According to a Fortune magazine survey, the field of public relations is one of the top-10 fastest growing industries nationwide. Similarly, Money Magazine's "50 Best Jobs in America" article states that public relations professionals earn an average annual salary of nearly \$85,000, with an earning potential of nearly \$250,000 a year. Additionally, the article states that there are more than 9,000 annual job openings, with a projected 23 percent 10-year growth rate increase. What do all of these numbers mean for you? Quite simply, if you study public relations at UCM, your chances of getting a job and earning a great living are very good.

Public relations is, without question, the most comprehensive; sought after; and, on average, the highest paid; field of strategic communication. What does this mean for you as a UCM public relations graduate? It means you will possess the most comprehensive set of communication skills (strategic planning, written and oral communication, counseling management, media relations, image and issues management, research, etc.).

### UCM Public Relations Program

University of Central Missouri's bachelor of science in public relations readies students for the professional world of image development, strategic planning, issues management, professional and promotional communication, media relations, and development. UCM's public relations program has a well-known reputation among industry leaders for equipping

its graduates with the skills needed to succeed in today's challenging and competitive public relations world. UCM graduates have traditionally attained executive-level positions with major organizations such as Dell computers, American Airlines, and professional sports teams. Others work in the non-profit and government sectors for such organizations as the American Red Cross, Children's Mercy Hospitals & Clinics, for higher education institutions, and the state legislature. More have taken positions with well-known agencies such as Bernstein-Rein, Kuhn & Wittenborn, Weber-Shandwick, and Fleishman-Hillard. Graduates find employment all over the world. The strategic development of the public relations program is guided by the Public Relations Society of America's "Report of the Commission on Public Relations Education." Each public relations graduate is equipped with beyond-the-classroom experience through service-learning projects and at least one supervised internship.

### Professional Development and Student Involvement

Public relations students are encouraged to take part in co-curricular activities that relate to their major. Involvement in the Robert Kendall Chapter of Public Relations Student Society of America, the second-oldest campus chapter in the nation, is highly valuable.

Students are also encouraged to take part in the student-led public relations firm, Innovative PR. The firm employs one Account Coordinator and five PR Specialists each semester.

Other communication organizations open to students include the International Association of Business Communicators, Lambda Pi Eta, Pi Kappa Delta and the Society of Professional Journalists. Many also take part in SIFE, DECA or AMA.

The department promotes

undergraduate learning experiences at Glamorgan University, Pontypridd Wales; Napier University, Edinburgh, Scotland; and Monterrey TEC (ITESM-CEM), Mexico, as well as multi-national experiences provided by the Maastricht Center for Transatlantic Studies in Maastricht, The Netherlands.

### Campus Media

Additional experience for public relations majors can be gained at the Department of Communication and Sociology's student newspaper, the Muleskinner, which is a weekly laboratory publication. Paid editorial and advertising positions are available, as well as practical experience for course credit. Students can also get involved in the online community newspaper, the digitalBurg, or the student broadcast station CTV.

The university's 100,000-watt state-of-the-art public broadcasting stations also provide unique opportunities for students to gain real-life, hands-on experience in radio and television both on air and behind the scenes. In addition to a full complement of National Public Radio and Public Broadcasting System programming, the stations feature a variety of locally produced programs that are enjoyed by a potential audience of a million people.

### To Learn More

For more information contact the department at, Martin 136, UCM, Warrensburg, MO 64093; call

660-543-4840; e-mail [hansen-horn@ucmo.edu](mailto:hansen-horn@ucmo.edu); or visit [www.ucmo.edu/comm](http://www.ucmo.edu/comm).

For admission information, call 1-877-SAY-UCMO (877-729-8266). UCM's website is [www.ucmo.edu](http://www.ucmo.edu).

**Public Relations Major, B.S. Degree (43-351)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I	3	COMM 2625 Writing & Editing for Public Relations	3
COMM 1100 Introduction to Communication	1	ENGL 1030 Composition II	3
COMM 2620 Introduction to Public Relations	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>13</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
COMM 1000 Public Speaking	3	COMM 2100 Introduction to Communication Theory	3
COMM 3620 Strategic Planning for Public Relations	3	COMM 3000 Film Appreciation	3
General Education	9	COMM 3010 Interpersonal Communication	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
COMM 3100 Communication Research Methods	3	COMM 4510 Magazine Design & Production	3
COMM 3625 Design & Layout for Publications	1	COMM 4685 Case Studies in Public Relations	2
COMM 4250 Mass Communication Law	3	COMM Major Electives*	5
COMM 4680 Publicity	3	Free Choice Electives	6
Free Choice Electives	6	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
COMM 4295 Internship	3	COMM 4690 Campaigns	3
COMM Major Elective*	3	Free Choice Electives	12
IGEN 3224 or 3232 or 4224	3	<b>Semester Total</b>	<b>15</b>
Free Choice Electives	6		
<b>Semester Total</b>	<b>15</b>		

**Public Relations Major, B.S. Degree - 120 hours**

- \*This major requires 8 hours of COMM major electives. See the Undergraduate Catalog for appropriate course choices.
- During the capstone course taken in the senior year, all graduates must satisfactorily complete a final assessment project before graduating. See department advisor for requirements.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Environmental, Physical, and Applied Sciences

# SAFETY MANAGEMENT

## BACHELOR OF SCIENCE DEGREE

Students pursuing University of Central Missouri's Bachelor of Science in Safety Management degree may concentrate in the areas of industrial and occupational loss prevention, which include fire science, security, emergency management and health.

Billions of dollars are lost each year as a result of avoidable accidents and unhealthy exposures on the job, at home and on the highways. Through the application of science and technology, potential safety, security and health losses are reduced by investigating people in their environments and by applying scientific principles of control. Safety sciences professionals are in demand, and the safety management program prepares individuals for rewarding careers in this field.

### Career Opportunities

Career placement rates for safety graduates are very high. Graduating students may receive multiple job offers prior to graduation, and entry-level compensation ranks high in relation to numerous other professional fields. Graduates may seek employment as safety analysts, safety managers, corporate health officers, loss control managers, systems safety analysts or OSHA/EPA compliance officers, as well as arson investigators, security managers, transportation safety managers, public services administrators, or industrial hygienists and others.

### About the Faculty

The safety programs have a highly qualified faculty, known for stimulating student achievement in departmental programs and projects. UCM's 16-1 student-faculty ratio allows for personalized attention and mentoring. In addition to diverse backgrounds and experience, they are also active participants in research and scholarly activity. Faculty members are active in professional organizations and have presented at national and international professional conferences.

Other sources of program strength include working relationships with the Occupational Safety and Health Administration, Environmental Protection Agency, Department of Transportation, Mine Safety and Health Administration, American Society of Safety Engineers, and American Industrial Hygiene Association.

### Student Involvement

Safety students are encouraged to participate in professional organizations. Student chapters of the American Society of Safety Engineers, the American Industrial Hygiene Association, the Rho Sigma Kappa Honor Society, are available in the department. The Safety programs also offer an internship program to qualified students. Internships allow students to gain practical experience in the operation of various components of the safety science field. Internships are available with business, industry and government.

### Scholarships

In addition to achievement awards, the safety programs have several scholarships available to students including the MEM Outstanding Student Scholarship, the Tieszen, Goetz, Phillips Petroleum Company, Key Safety, Brueske Industrial Safety, Freeman Transportation, Goldberg St. Louis Risk and Insurance Management Society, St. Louis ASSE Chapter scholarships, and the Construction Safety Group of Kansas City Scholarship program.

### To Learn More

For more information, contact the Safety Management program coordinator, Humphreys 327, UCM, Warrensburg, MO 64093, at 660-543-4626. The department's web address is [www.ucmo.edu/ss](http://www.ucmo.edu/ss).

For admission information, call 877-SAY-UCMO (877-729-8266) or access Central Missouri's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Safety Management Major, B.S. Degree (43-243)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	CHEM 1104 Introduction to the Sciences: Chemistry	4
MATH 1111 College Algebra	3	ENGL 1030 Composition II	3
SAFE 1000 Exploring Safety Sciences	1	PSY 1100 General Psychology	3
SAFE 3000 Accident Causation & Prevention	3	General Education	5-6
General Education	6	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
PHYS 1103 Introduction to the Sciences: Physics	3	SAFE 3430 Industrial Hazard Control	3
SAFE 3120 Introduction to Industrial Hygiene	3	SAFE 4510 Loss Control	3
SAFE 4020 Legal Aspects of Safety & Health	3	SAFE 4520 Safety & Risk Analysis	3
Minor Coursework	3	Minor Coursework	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
SAFE 3070 Safety Leadership	3	SAFE 4430 Workers Compensation Legislation	3
SAFE 4000 Ergonomics in Safety & Health	3	SAFE 4850 Industrial Fire Protection	3
SAFE 4140 Safety & Health Laboratory	3	Minor Coursework	3
SAFE 4425 Safety & Health Legislation & Standards	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs.</b>		
SAFE 4990 Internship in Safety Sciences* or Departmentally Approved Elective	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
SAFE 4010 Accident Investigation	3	ICAP 4115 Safety & Health Management	3
SAFE 4035 Safety Program Management	3	SAFE 4435 Environmental Compliance	3
SAFE 4940 Statistical Analysis for Risk Management	3	SAFE 4560 Systems Safety	3
Minor Coursework	3	Minor Coursework	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Safety Management Major, B.S. Degree - 121 hours**

- \*SAFE 4990 should be taken during the summer.
- Students seeking admission to this program must have a minimum 2.20 cumulative grade-point average and have completed a semester each of college algebra (or higher math), chemistry with lab, and physics, and achieve a grade-point of 2.00 averaged over the three courses. These courses meet basic program assessment outcomes in science and math. Application should be made when the student has completed more than 30 semester hours and has at least 30 semester hours remaining. An assessment examination must be completed during the last semester of course work. Students may apply to the program by obtaining a degree audit in MyCentral and submitting it to the department for approval.
- This plan is based on an 18-hour minor.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Arts, Humanities, and Social Sciences

Department of History and Anthropology

# SOCIAL STUDIES

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

The Department of History and Anthropology at the University of Central Missouri provides opportunities for students interested in studying the human experience, cultures, and civilization.

Social studies education is a prescribed course of study designed to train future social studies teachers. Students in the program will take a variety of social science courses in the disciplines of anthropology, economics, geography, history, political science, psychology, and sociology as well as the requisite education curriculum. Upon completion of the requirements, the Department of Elementary and Secondary Education (DESE) will certify the graduate to teach social studies in the secondary schools (grades 9-12).

On another level, social studies education has a broader social mission. According to the National Council for the Social Studies (NCSS), the primary purpose of social studies education is the promotion of civic competence among young students. The task, then, of the social studies education program is to prepare future teachers.

To accomplish this goal, the social studies program at University of Central Missouri will provide its majors with the coursework necessary to acquire the knowledge (social science content) and the skills (education theory and methods) to succeed as a classroom teacher of social studies. The social science coursework consists of 60 credit hours (20 courses) and the education coursework consists of 28 credit hours (11 courses).

### About the Faculty

UCM's Department of History and Anthropology has a distinguished reputation. Its faculty is dedicated to the growth and professional development of their students, in addition to being actively involved in research, writing and public service. Faculty members have published many books and articles, participated in regional, national and international conferences, and received numerous grants and awards for study and research. In addition to their wide range of academic and professional experience, all members of the department's faculty have earned doctorates in their fields of expertise. UCM's 17 to 1 student-faculty ratio allows for personalized attention for each student.

### Student Involvement

Students are encouraged to supplement their academic programs through international study and participation in campus organizations of special professional, service and academic interest. The History and Anthropology Clubs provide opportunities for members to have personal and informal association with the department's faculty and other history and anthropology students outside the classroom. Qualified students may also seek membership in Phi Alpha Theta, the national history honor society, which encourages excellence in the study of history.

### Special Facilities

UCM houses some extraordinary collections. History and anthropology faculty members are dedicated curators of the university's archives and museum, located in the James C.

Kirkpatrick Library. In addition to the museum's many collections and other historical items on display, various exhibits are featured throughout the year for public inspection.

Students may also enhance their education through learning experiences at local facilities, such as Blind Boone Park, the Howard School, and Pertle Springs, and through international opportunities.

### Internships

Students have the opportunity to pursue internships that will enhance their knowledge skills and provide real world experiences. Interns have been placed at the Truman Library in Independence, Midwest Center for Holocaust Education, and at archives/museums in Jefferson City, Johnson County and Henry County, to name just a few.

### Scholarships

The Department of History and Anthropology presents Semester Achievement Awards to students who excel academically. Other scholarships available include the Demand Scholarship in history, A.E. Twomey Scholarship in history, and A.F. McClure Scholarship in archives.

### To Learn More

For more information write to the Department of History and Anthropology, Wood 136, UCM, Warrensburg, MO 64093, call 660-543-4404, or fax 660-543-4535.

For admission information, call 877-SAY-UCMO (877-729-8266). The university's home page is [www.ucmo.edu](http://www.ucmo.edu) and the department's home page is [www.ucmo.edu/history](http://www.ucmo.edu/history).

**Social Studies Major, B.S. in Ed. Degree (41-264)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	ECON 1010 Principles of Macroeconomics	3
<b><i>HIST 1350 History of the United States to 1877</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
SOC 1800 General Sociology	3	HIST 1351 History of the United States from 1877	3
<b><i>General Education Science w/lab</i></b>	4	POLS 1510 American Government	3
General Education	3	<b><i>General Education Math</i></b>	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CTE 2000 Technology and Society	3	ECON 1011 Principles of Microeconomics	3
EDFL 2100 Foundations of Education	2	HIST 2400 History of the Early World or HIST 2402 History of the Modern World*	3
FLDX 2150 Introductory Field Experience	1	POLS 2511 State Government	3
EDFL 2240 Educational Psychology	3	General Education	9
GEOG 2212 World Geography	3	<b>Semester Total</b>	<b>18</b>
HIST 2401 History of the Early Modern World	3		
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
EDFL 4300 Educational Measurement & Evaluation	2	EDFL 4210 Teaching of Reading in the Secondary School	2
HIST Upper-Level Electives**	6	HIST Upper-Level Electives**	6
PSY 4200 Psychology of Exceptional Children	2	PSY 4230 Psychology of Adolescence	3
SOSC 3010 Writing in the Social Sciences	3	Upper-Level Elective in SOC or ANTH	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs.</b>
EDFL 3500 Secondary Teaching & Behavioral Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
SOSC 4050 The Social Studies	3	SOSC 4020 Secondary Field Experience II	1
Upper-Level Electives in Major***	6	SOSC 4074 Methods of Teaching Social Studies	2
Upper-Level Elective in GEOG	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>16</b>		

**Social Studies Major, B.S. in Ed. Degree - 125 hours**

- \*If selected, HIST 2402 will fulfill 3 hours of General Education Division II Area D. If not selected, an additional three hour course must be taken to fulfill that requirement.
- \*\*See catalog for a list of History classes to fulfill the upper-level electives in American History (HIST 43XX) and World History (HIST 44XX) requirements.
- \*\*\*Students choose upper-level electives from at least two of the following prefixes: GEOG, HIST, POLS, SOC, ANTH, or ECON.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- This program must include at least one course that focuses on a non-western society, nation or region or on the non-western world. A list of the courses which fulfill this requirement is available from the Department of History and Anthropology and is on file with the academic advisors.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## Harmon College of Business and Professional Studies

Department of Communication Disorders and Social Work

# SOCIAL WORK

## BACHELOR OF SOCIAL WORK DEGREE

The social work program at UCM prepares students to enter the social work profession. Required coursework and the social work field practicum equip students with the knowledge, skills, and values for entry-level (generalist) social work practice and for advancement to graduate-level study.

The social work profession strives to help people to strengthen and improve their abilities to address a wide variety of life challenges. Social workers are involved in helping people to resolve emotional, social, economic, and political problems. Professional social work education prepares students to work with groups, organizations, and communities in addition to individuals and families.

### Career Prospects

Social workers are employed in a wide variety of community agencies and social institutions. Child welfare or family services social workers may help single parents find needed resources and strengthen social supports, arrange for homemaker services during a parent's illness, and locate foster homes for abused, abandoned, or neglected children. Mental health social workers provide social rehabilitation, crisis intervention, and training in skills of everyday living for persons with mental or emotional problems. They may work with members of a multidisciplinary team to support optimum functioning within the community. Health care social workers help patients and their families cope

with serious illnesses and injuries. They often help to facilitate needed services for continuing care or rehabilitation. Gerontology social workers specialize in providing services to elderly individuals and their families to maximize the quality of life through individualized planning and coordination of services.

### Curriculum

Most of the required social work courses are taken during the junior and senior years. Classes are offered during the daytime on campus in Warrensburg and an evening degree completion program is offered at the UCM Summit Center in Lee's Summit. Students are assigned to a social work faculty member for advisement to help ensure timely progress through the requirements for the degree and to explore questions students may have about the profession. A formal admissions procedure is required, usually beginning following the first semester of the junior year. An application accompanied by an autobiographical essay, an updated transcript, three references, and an interview with the admissions committee are required. Courses required for the BSW degree must be completed with a grade of C or above to count toward the completion of the degree.

### Accreditation

The Social Work Program is fully accredited by the Council on Social Work Education. Graduates of accredited programs are generally more desirable to employers, they

are eligible to apply for a social work license in those states licensing baccalaureate social workers (including Missouri), and they are eligible to apply for advanced standing admission to graduate schools of social work.

### Student Organizations

Social work students are encouraged to participate in the Association of Social Work Students, which is open to any student interested in the social work profession, and the Phi Alpha Honor Society, Central Missouri's chapter of the national social work honor society.

### Scholarships

Scholarships available to social work students through the department include the C. James Britton Scholarship.

### To Learn More

For more information contact the Department of Communication Disorders and Social Work, Wood 203, UCM, Warrensburg, MO 64093, email [socialwork@ucmo.edu](mailto:socialwork@ucmo.edu) or by phone at 660-543-4407.

For information about admission to Central Missouri, contact the Office of Admissions, UCM, Ward Edwards 1401, Warrensburg, MO 64093, phone 877-SAY-UCMO (877-729-8266), or visit the web site [www.ucmo.edu](http://www.ucmo.edu).

**Social Work Major, B.S.W. Degree (48-847)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	12	SOC 1800 General Sociology	3
<b>Semester Total</b>	<b>15</b>	General Education	9
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
PSY 1100 General Psychology	3	BIOL 2010 Human Biology	3
General Education MATH	3	SOWK 2600 Introduction to Social Welfare & Social Work	3
General Education**	3	General Education	6
Free Choice Electives	6	Free Choice Electives	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
SOC 2805 Introduction to Social Research	3	SOC 3825 Race & Ethnic Relations	3
SOWK 3601 SW Practice & the Agency Experience	3	SOWK 3605 Methods of Inq. & Eval. for Social Workers	3
SOWK 3612 Human Behavior Across the Lifespan	3	SOWK 3610 Social Work Practice: Basic Skills	3
SOWK 4612 Human Behavior Social Systems	3	SOWK 4640 SW Practice: Intervention w/Comm. & Orgs.	3
Free Choice Electives	5	Free Choice Elective	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

**Apply for Admission to Social Work Program**

<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
PSY 4440 Abnormal Psychology	3	ICAP 4478 Integ. Social Work Practicum Seminar	3
SOWK 4610 Special Topics in Social Work or SOWK 4620 Soc. Services & Policy w/ Older Adults	3	SOWK 4660 Field Practicum	9
SOWK 4630 SW Practice: Intervention with Fam. & Grps.	3	<b>Semester Total</b>	<b>12</b>
SOWK 4650 Social Policy & Economic Justice	3		
Free Choice Elective	3		
<b>Semester Total</b>	<b>15</b>		

**Social Work Major, B.S.W. Degree - 120 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*COMM 1000 Public Speaking is highly recommended by the department. This course will fulfill the general education requirement for Oral Interpretation.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Communication and Sociology

# SOCIOLOGY

## BACHELOR OF ARTS DEGREE

Simply stated, sociology studies social life. Sociologists examine institutions such as the family, the economy, and religion. They look at how couples interact with each other and negotiate household chores. They look at the decline of family farms in rural areas. A sociologist might explore sources of social conflict between social classes, racial or ethnic groups, or between gender groups. They ask questions about the relationships between citizen groups and local governments, or between states and nations in the emerging global arena.

Sociologists use a variety of research tools to do their work. Spirituality and gender may be explored by using in-depth interviews. Researchers may study suicide behavior by looking at national statistical trends or conduct surveys to assess people's attitudes towards welfare reform. They may use participant observation to learn about urban gangs. Research specialties may include families, inequality, race and ethnic relations, gender, sports, culture, crime, delinquency, law, social change, work and economy, medicine and gerontology, religion, and communities.

UCM's degree program requires courses in sociological theory, research methods, social interaction and globalization. Students are assigned to a sociology faculty member for advisement to ensure timely progress through the requirements for the major and to explore questions students may have about graduate study or employment after earning their degree.

Graduates in sociology are able to find positions in a range of areas because of their educational preparation in the field. Graduates in sociology are prepared with an emphasis on creative problem-solving and critical-thinking skills—skills all employers are seeking. Graduates learn about the implications of diversity for the workplace as well as other areas of social action, both nationally and internationally. Their understanding of human relationships within social groups prepares them for employment in various settings. Sociology graduates develop the skills to think abstractly, conduct research on questions of interest, analyze data, organize data, and communicate in both oral and written formats. Employment prospects include:

- human services
- community work
- corrections
- business
- college settings
- health services
- publishing and public relations
- government research

An undergraduate degree in sociology also prepares students for further graduate studies in sociology or other disciplines, such as law and public administration.

To receive a Bachelor of Arts in Sociology degree, students must complete the university's General Education Program requirements and the requirements for the sociology major. While a minor is not required, students are strongly encouraged to pursue a minor in an area of interest and/or as preparation for advanced or graduate study.

### Student Organizations

Two organizations are devoted to the interests and development of students who are pursuing a major or a minor in sociology. The Sociology Club and the Alpha Kappa Delta Honor Society present opportunities to interact with faculty and other students and to participate in academic seminars and conferences.

### Department Scholarships

Annually, the C. James Britton Scholarship is awarded to a departmental undergraduate with at least 90 earned semester hours or a graduate student. Students meeting the eligibility criteria are invited to apply during the fall semester; all applications are reviewed by the Scholarship Committee which makes the selection.

### To Learn More

For more information, write to the Department of Communication and Sociology, Martin 136, University of Central Missouri, Warrensburg, MO 64093, email [socdept@ucmo.edu](mailto:socdept@ucmo.edu) or phone 660-543-4840.

For more information about admission to Central Missouri, contact the Office of Admissions, Ward Edwards 1400, UCM, Warrensburg, MO 64093, phone 877-SAY-UCMO (877-729-8266), or visit the web site [www.ucmo.edu](http://www.ucmo.edu).

**Sociology Major, B.A. Degree (42-755)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
SOC 1800 General Sociology	3	SOC Elective	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
SOC 2805 Introduction to Social Research	3	SOC Elective	3
Modern Language Requirement*	3	General Education	8-10
General Education	3	Free Choice Elective or Minor Coursework***	3
Free Choice Elective or Minor Coursework	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
SOC 3800 History of Social Thought	3	SOC 4860 Contemporary Social Thought	3
General Education	6	SOC Elective	3
Free Choice Electives or Minor Coursework***	6	Free Choice Electives or Minor Coursework***	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
SOC 4890 Social Survey Research (Fall only)	3	General Education	3
SOC 4895 Sociology Capstone Seminar (Fall only)	3	Free Choice Electives or Minor Coursework***	12
Free Choice Electives or Minor Coursework***	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Sociology Major, B.A. Degree - 120 hours**

- \*Refer to the Bachelor's Degree Requirements section in the Undergraduate Catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*This degree program includes 42 hours of free choice electives; a minor is highly recommended by the department but is not required. The number of free choice electives required will vary if a minor is chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Communication and Sociology

# SOCIOLOGY

## BACHELOR OF SCIENCE DEGREE

Simply stated, sociology studies social life. Sociologists examine institutions such as the family, the economy, and religion. They look at how couples interact with each other and negotiate household chores. They look at the decline of family farms in rural areas. A sociologist might explore sources of social conflict between social classes, racial or ethnic groups, or between gender groups. They ask questions about the relationships between citizen groups and local governments, or between states and nations in the emerging global arena.

Sociologists use a variety of research tools to do their work. Spirituality and gender may be explored by using in-depth interviews. Researchers may study suicide behavior by looking at national statistical trends or conduct surveys to assess people's attitudes towards welfare reform. They may use participant observation to learn about urban gangs. Research specialties may include families, inequality, race and ethnic relations, gender, sports, culture, crime, delinquency, law, social change, work and economy, medicine and gerontology, religion, and communities.

UCM's degree program requires courses in sociological theory, research methods, social interaction and globalization. Students are assigned to a sociology faculty member for advisement to ensure timely progress through the requirements for the major and to explore questions students may have about graduate study or employment after earning their degree.

Graduates in sociology are able to find positions in a range of areas because of their educational preparation in the field. Graduates in sociology are prepared with an emphasis on creative problem-solving and critical-thinking skills—skills all employers are seeking. Graduates learn about the implications of diversity for the workplace as well as other areas of social action, both nationally and internationally. Their understanding of human relationships within social groups prepares them for employment in various settings. Sociology graduates develop the skills to think abstractly, conduct research on questions of interest, analyze data, organize data, and communicate in both oral and written formats. Employment prospects include:

- human services
- community work
- corrections
- business
- college settings
- health services
- publishing and public relations
- government research

An undergraduate degree in sociology also prepares students for further graduate studies in sociology or other disciplines, such as law and public administration.

To receive a Bachelor of Science in Sociology degree students must complete the university's General Education Program requirements and the requirements for the sociology major. While a minor is not required, students are strongly encouraged to pursue a minor in an area of interest and/or as preparation for advanced or graduate study.

### Student Organizations

Two organizations are devoted to the interests and development of students who are pursuing a major or a minor in sociology. The Sociology Club and the Alpha Kappa Delta Honor Society present opportunities to interact with faculty and other students and to participate in academic seminars and conferences.

### Department Scholarships

Annually, the C. James Britton Scholarship is awarded to a departmental undergraduate with at least 90 earned semester hours or a graduate student. Students meeting the eligibility criteria are invited to apply during the fall semester; all applications are reviewed by the Scholarship Committee which makes the selection.

### To Learn More

For more information, write to the Department of Communication and Sociology, Martin 136, University of Central Missouri, Warrensburg, MO 64093, email [socdept@ucmo.edu](mailto:socdept@ucmo.edu) or phone 660-543-4840.

For more information about admission to Central Missouri, contact the Office of Admissions, Ward Edwards 1400, UCM, Warrensburg, MO 64093, phone 877-SAY-UCMO (877-729-8266), or visit the web site [www.ucmo.edu](http://www.ucmo.edu).

**Sociology Major, B.S. Degree (43-756)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
SOC 1800 General Sociology	3	SOC Elective	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
SOC 2805 Introduction to Social Research	3	SOC Elective	3
SOC Elective	3	General Education	6
General Education	8-10	Free Choice Electives or Minor Coursework**	6
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
SOC 3800 History of Social Thought	3	SOC 4860 Contemporary Social Thought (Spring only)	3
SOC Elective	3	SOC Elective	3
Free Choice Electives or Minor Coursework**	6	Free Choice Electives or Minor Coursework**	9
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
SOC 4890 Social Survey Research (Fall only)	3	SOC Elective	3
SOC 4895 Sociology Capstone Course (Fall only)	3	General Education	3
Free Choice Electives or Minor Coursework**	9	Free Choice Electives or Minor Coursework**	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Sociology Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This degree program includes 39 hours of free choice electives; a minor is highly recommended by the department but is not required. The number of free choice electives required will vary if a minor is chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Education

Department of Educational Leadership and Human Development

# SPECIAL EDUCATION

## EARLY CHILDHOOD OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

Special educators are highly trained professionals who provide specifically designed instruction and services to children and youth with disabilities. A small percentage of graduates work in private schools, residential facilities, hospitals, clinics and student homes. The majority, however, work in the public schools in:

**Self-contained classrooms.** Only 20 percent of students with disabilities spend most of their school day in a classroom specifically set aside for children with disabilities.

**Resource rooms.** Most special education teachers work in resource rooms, where they provide specialized instruction to students with disabilities who come in for part of the school day, either individually or in small groups.

**General education classrooms.** In an increasing number of schools, students with disabilities receive most, if not all, of their instruction in a general education classroom where special educators work closely with general education teachers.

### Occupational Outlook

Employment opportunities in special education teaching are expected to grow 21 to 35 percent through 2015, an increase of more than 150,000 positions. Typical salaries range between \$26,000 to more than \$65,000. A national shortage of well-trained, qualified professional special educators assures our graduates teaching positions in Missouri and across the nation.

### Special Education Requirements

Central Missouri's special education programs are concentrated around the Professional Standards

and Competencies established by the Council for Exceptional Children, the world's largest professional organization for special educators. Specialization options at UCM include early childhood special education, severe developmental disabilities, and mild/moderate cross-categorical disabilities. Although each area of specialization contains coursework specific to that categorical area, several fundamental courses are required of all special education majors as state certification requirements.

A special education program faculty adviser works closely with each student to ensure courses are taken in proper sequence and timely admissions to the program are made. Admission to the special education program entails completion of core foundation courses with at least a "C"; completion of 48 semester hours with at least six hours at UCM; an overall GPA of 2.5; portfolio check and approval by the faculty adviser; successful completion of the College Basic Academic Skills Exam (C-BASE); and recommendation from the faculty upon successful completion of the program qualifying examination.

### Student Organizations

UCM's Student Council for Exceptional Children chapter is one of the largest and most active student CEC chapters in Missouri. Opportunities for involvement, networking, socialization and leadership abound in this pre-professional group for aspiring special educators.

### Faculty

UCM's special education faculty includes five full-time teacher educators who have extensive backgrounds in the public schools as teachers and administrators. Actively engaged in research, scholarship and community service, these faculty members bring theory and practice together in classes that are small and interactive. Students get to know faculty from the very first course, and learn how technology and diversity are integral components of contemporary special education classrooms. All faculty members hold positions of leadership in state, regional and national professional organizations related to individuals with disabilities.

### Accreditations

The special education programs at Central Missouri are fully accredited by the National Council of Accreditation of Teacher Education programs (NCATE), the Council for Exceptional Children, the Missouri Department of Elementary and Secondary Education (DESE), and the Higher Learning Commission (formerly North Central Association of Colleges and Schools).

### To Learn More

Contact the coordinator of special education programs, Department of Educational Leadership and Human Development, Lovinger 4101, UCM, Warrensburg, MO 64093; phone 660-543-8497; or email [jneal@ucmo.edu](mailto:jneal@ucmo.edu).

To contact the Office of Admissions in Ward Edwards 1400, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Special Education: Early Childhood Major, B.S. in Ed. Degree (41-03784)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	ECEL 1310 Physics for Teachers or	
<b><i>HIST 1350 or 1351 History of the United States</i></b>	3	ECEL 1320 Biology for Teachers*	3
<b><i>MATH 1620 Contemporary Mathematics</i></b>	3	EDSP 2100 Education of the Exceptional Child	2
<b><i>General Education Science with lab*</i></b>	4	<b><i>ENGL 1030 Composition II</i></b>	3
General Education	2-3	GEOG 2212 World Geography	3
<b>Semester Total</b>	<b>15-16</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CFD 1220 Child Development	3	D&N 2310 Early Childhood Nutrition & Health	2
CFD 1230 Observation of Children	2	EDSP 3150 Community & Family Resources	2
ECEL 2310 Computer/Technology in Education	2	EDSP 3151 Community & Family Resources Practicum	1
EDFL 2240 Educational Psychology	3	EDSP 4140 Collaborating with Families	3
EDFL 2100 Foundation of Education	2	<b><i>POLS 1510 American Government</i></b>	3
FLDX 2150 Introductory Field Experience	1	General Education	6
EDSP 4320 Intro. to Early Childhood Spl. Educ. (fall only)	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CD 2000 The Bases of Speech & Language	2	EDFL 3210 Methods of Reading Instruction	3
EDSP 4370 Screening, Diagnosing, & Presc. Instruction	3	EDSP 4350 Augmentative & Altern. Comm. (spring only)	3
EDSP 4620 Evaluation of Ability & Achievement	3	EDSP 4360 Behavior Management Techniques	2
HED 4330 First Aid & CPR	1	EDSP 4361 Practicum in Behavior Management Techniques	1
MATH 3890 Concepts & Methods for Teaching Special Ed.	3	EDSP 4440 Curriculum & Methods ECSE (spring only)	3
General Education	3	EDSP 4470 Perceptual Motor Training for Students w/Dis. (spring only)	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs.</b>
ART 3910 Art for Elementary School	2	EDSP 4395 Student Teaching in Special Education I	6
ECEL 3220 The Teaching of Language Arts	3	EDSP 4396 Student Teaching in Special Education II	6
EDFL 3410 Children's Literature	2	<b>Semester Total</b>	<b>12</b>
EDSP 4700 IEP & Law	3		
IGEN 3468 Community, School & Family Connections	3		
General Education	3		
<b>Semester Total</b>	<b>16</b>		

**Special Education: Early Childhood Major, B.S. in Ed. Degree – 122 hours**

- \*Students must have one biological and one physical science, for a total of seven credit hours. Option 1 = BIOL 1004 and ECEL 1310 or Option 2 = EASC 1004, CHEM 1104, or PHYS 1104 and ECEL 1320.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- Please contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track. EDSP 4320 is fall semester only, and EDSP 4350, 4440, and 4470 are spring semester only.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Education

Department of Educational Leadership and Human Development

# SPECIAL EDUCATION

MILD/MODERATE CROSS-CATEGORICAL DISABILITIES OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

Special educators are highly trained professionals who provide specifically designed instruction and services to children and youth with disabilities. A small percentage of graduates work in private schools, residential facilities, hospitals, clinics and student homes. The majority, however, work in the public schools in:

*Self-contained classrooms.* Only 20 percent of students with disabilities spend most of their school day in a classroom specifically set aside for children with disabilities.

*Resource rooms.* Most special education teachers work in resource rooms, where they provide specialized instruction to students with disabilities who come in for part of the school day, either individually or in small groups.

*General education classrooms.* In an increasing number of schools, students with disabilities receive most, if not all, of their instruction in a general education classroom where special educators work closely with general education teachers.

### Occupational Outlook

Employment opportunities in special education teaching are expected to grow 21 to 35 percent through 2015, an increase of more than 150,000 positions. Typical salaries range between \$26,000 to more than \$65,000. A national shortage of well-trained, qualified professional special educators assures our graduates teaching positions in Missouri and across the nation.

### Special Education Requirements

Central Missouri's special education programs are concentrated

around the Professional Standards and Competencies established by the Council for Exceptional Children, the world's largest professional organization for special educators. Specialization options at UCM include early childhood special education, severe developmental disabilities, and mild/moderate cross-categorical disabilities. Although each area of specialization contains coursework specific to that categorical area, several fundamental courses are required of all special education majors as state certification requirements.

A special education program faculty adviser works closely with each student to ensure courses are taken in proper sequence and timely admissions to the program are made. Admission to the special education program entails completion of core foundation courses with at least a "C"; completion of 48 semester hours with at least six hours at UCM; an overall GPA of 2.5; portfolio check and approval by the faculty adviser; successful completion of the College Basic Academic Skills Exam (C-BASE); and recommendation from the faculty upon successful completion of the program qualifying examination.

### Student Organizations

UCM's Student Council for Exceptional Children chapter is one of the largest and most active student CEC chapters in Missouri. Opportunities for involvement, networking, socialization and leadership abound in this pre-professional group for aspiring special educators.

### Faculty

UCM's special education faculty includes five full-time teacher educators who have extensive backgrounds in the public schools as teachers and administrators. Actively engaged in research, scholarship and community service, these faculty members bring theory and practice together in classes that are small and interactive. Students get to know faculty from the very first course, and learn how technology and diversity are integral components of contemporary special education classrooms. All faculty members hold positions of leadership in state, regional and national professional organizations related to individuals with disabilities.

### Accreditations

The special education programs at Central Missouri are fully accredited by the National Council of Accreditation of Teacher Education programs (NCATE), the Council for Exceptional Children, the Missouri Department of Elementary and Secondary Education (DESE), and the Higher Learning Commission (formerly North Central Association of Colleges and Schools).

### To Learn More

Contact the coordinator of special education programs, Department of Educational Leadership and Human Development, Lovinger 4101, UCM, Warrensburg, MO 64093; phone 660-543-8497; or email [jneal@ucmo.edu](mailto:jneal@ucmo.edu).

To contact the Office of Admissions in Ward Edwards 1400, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Special Education: Mild/Moderate Cross Categorical Disabilities, B.S. in Ed. Degree (41-01784)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>MATH 1620 Contemporary Mathematics</i></b>	3	ECEL 1310 Physics for Teachers or	
<b><i>POLS 1510 American Government</i></b>	3	ECEL 1320 Biology for Teachers*	3
<b><i>General Education Science with lab*</i></b>	4	EDSP 2100 Education of the Exceptional Child	2
General Education	2-3	HIST 1350 or 1351 History of the United States	3
<b>Semester Total</b>	<b>15-16</b>	General Education	3
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>14</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 3910 Art for Elementary School	2	CD 4402 Language Acq. for Children w/Dev. Disabilities	2
ECEL 2310 Computer/Technology in Education	2	EDFL 3210 Methods of Reading Instruction	3
EDFL 2100 Foundations of Education	2	EDSP 4140 Collaborating with Families	3
FLDX 2150 Introductory Field Experience	1	GEOG 2212 World Geography	3
EDFL 2240 Educational Psychology	3	HED 3310 Methods in Elementary School Health	2
EDSP 4385 Intro. to Cross Categorical Special Education	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
EDSP 4620 Evaluation of Ability & Achievement	3	EDFL 4220 Analysis/Correction Reading Disabilities	2
EDSP 4150 Career Development for Student w/Disabilities	2	EDFL 4250 Practicum in Reading	1
EDFL 3215 Teaching Reading Content	3	EDSP 4360 Behavior Management Techniques	2
MATH 3890 Concepts & Methods for Teaching Special Ed.	3	EDSP 4361 Practice in Behavior Management Techniques	1
PSY 2220 Child Psychology***	3	MATH 4890 Math for Special Education	2
Free Choice Electives	2-3	PSY 4230 Adolescent Psychology***	3
<b>Semester Total</b>	<b>16-17</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs.</b>
EDSP 4421 Methods of Cross-Cat I: ID/OHI (fall only)	3	EDSP 4395 Student Teaching in Special Education I	8
EDSP 4422 Methods of Cross-Cat Dis. II: LD (fall only)	3	ICAP 4468 Student Teaching Second II	4
EDSP 4423 Methods of Cross-Cat Dis. III E/BD (fall only)	3	<b>Semester Total</b>	<b>12</b>
EDSP 4700 IEP & the Law	3		
HED 4330 First Aid & CPR for Educators	1		
<b>Semester Total</b>	<b>13</b>		

**Special Education: Mild/Moderate Cross Categorical Disabilities Major, B.S. in Ed. Degree - 120 hours**

- \*Students must have one biological and one physical science, for a total of seven credit hours. Option 1 = BIOL 1004 and ECEL 1310 or Option 2 = EASC 1004, CHEM 1104, or PHYS 1104 and ECEL 1320
- \*\* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*With permission of advisor, students may substitute PSY 3220 Lifespan Psychology for both PSY 2220 and PSY 4230.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Education

Department of Educational Leadership and Human Development

# SPECIAL EDUCATION

## SEVERE DEVELOPMENTAL DISABILITIES OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

Special educators are highly trained professionals who provide specifically designed instruction and services to children and youth with disabilities. A small percentage of graduates work in private schools, residential facilities, hospitals, clinics and student homes. The majority, however, work in the public schools in:

*Self-contained classrooms.* Only 20 percent of students with disabilities spend most of their school day in a classroom specifically set aside for children with disabilities.

*Resource rooms.* Most special education teachers work in resource rooms, where they provide specialized instruction to students with disabilities who come in for part of the school day, either individually or in small groups.

*General education classrooms.* In an increasing number of schools, students with disabilities receive most, if not all, of their instruction in a general education classroom where special educators work closely with general education teachers.

### Occupational Outlook

Employment opportunities in special education teaching are expected to grow 21 to 35 percent through 2015, an increase of more than 150,000 positions. Typical salaries range between \$26,000 to more than \$65,000. A national shortage of well-trained, qualified professional special educators assures our graduates teaching positions in Missouri and across the nation.

### Special Education Requirements

Central Missouri's special education programs are concentrated

around the Professional Standards and Competencies established by the Council for Exceptional Children, the world's largest professional organization for special educators. Specialization options at UCM include early childhood special education, severe developmental disabilities, and mild/moderate cross-categorical disabilities. Although each area of specialization contains coursework specific to that categorical area, several fundamental courses are required of all special education majors as state certification requirements.

A special education program faculty adviser works closely with each student to ensure courses are taken in proper sequence and timely admissions to the program are made. Admission to the special education program entails completion of core foundation courses with at least a "C"; completion of 48 semester hours with at least six hours at UCM; an overall GPA of 2.5; portfolio check and approval by the faculty adviser; successful completion of the College Basic Academic Skills Exam (C-BASE); and recommendation from the faculty upon successful completion of the program qualifying examination.

### Student Organizations

UCM's Student Council for Exceptional Children chapter is one of the largest and most active student CEC chapters in Missouri. Opportunities for involvement, networking, socialization and leadership abound in this pre-professional group for aspiring special educators.

### Faculty

UCM's special education faculty includes five full-time teacher educators who have extensive backgrounds in the public schools as teachers and administrators. Actively engaged in research, scholarship and community service, these faculty members bring theory and practice together in classes that are small and interactive. Students get to know faculty from the very first course, and learn how technology and diversity are integral components of contemporary special education classrooms. All faculty members hold positions of leadership in state, regional and national professional organizations related to individuals with disabilities.

### Accreditations

The special education programs at Central Missouri are fully accredited by the National Council of Accreditation of Teacher Education programs (NCATE), the Council for Exceptional Children, the Missouri Department of Elementary and Secondary Education (DESE), and the Higher Learning Commission (formerly North Central Association of Colleges and Schools).

### To Learn More

Contact the coordinator of special education programs, Department of Educational Leadership and Human Development, Lovinger 4101, UCM, Warrensburg, MO 64093; phone 660-543-8497; or email [jneal@ucmo.edu](mailto:jneal@ucmo.edu).

To contact the Office of Admissions in Ward Edwards 1400, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Special Education: Severely Developmentally Disabled Major, B.S. in Ed. Degree (41-02784)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>MATH 1620 Contemporary Mathematics</i></b>	3	ECEL 1310 Physics for Teachers or	
<b><i>POLS 1510 American Government</i></b>	3	ECEL 1320 Biology for Teachers*	3
<b><i>General Education Science with Lab*</i></b>	4	EDSP 2100 Education of the Exceptional Child	2
General Education	2-3	GEOG 2212 World Geography	3
<b>Semester Total</b>	<b>15-16</b>	General Education	6
AE 1400 Freshman Seminar**	1	<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CD 4402 Language Acq. for Children w/Dev. Disabilities	2	ART 3910 Art for Elementary School	2
ECEL 2310 Computer/Technology in Education	2	EDSP 4140 Collaborating with Families	3
EDFL 2100 Foundations of Education	2	EDSP 4350 Augmentative & Alternative Communication	3
FLDX 2150 Introductory Field Experience	1	<b><i>HIST 1350 or 1351 History of the United States</i></b>	3
EDFL 2240 Educational Psychology	3	PE 4340 Adaptive Physical Education	3
EDSP 4370 Screening, Diagnosing, & Prescrib. Instruction	3	<b>Semester Total</b>	<b>14</b>
NUR 4060 Physical & Health of Medically Fragile Child	3		
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
EDSP 4310 Introduction to Students with SDD#	2	EDSP 4360 Behavior Management Techniques	2
EDSP 4330 Curr. & Meth. for Teaching Students w/SDD I#	3	EDSP 4361 Practice in Behavior Management Techniques	1
PSY 2220 Child Psychology***	3	EDSP 4450 Curr. & Meth. for Teaching Students w/ SDD II#3	3
MATH 3890 Concepts & Methods of Teach. for Special Ed.	3	EDSP 4470 Perceptual Motor Training for Students w/Dis.	2
General Education	6	EDSP 4620 Evaluation of Ability & Achievement	3
<b>Semester Total</b>	<b>17</b>	MATH 4890 Math for Special Education	2
		<b>Semester Total</b>	<b>13</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs.</b>
EDFL 3210 Methods of Reading Instruction	3	EDSP 4395 Student Teaching in Special Education I	8
EDSP 4700 IEP & Law	3	ICAP 4468 Student Teaching II	4
HED 3310 Methods in Elementary School Health	2	<b>Semester Total</b>	<b>12</b>
HED 4330 First Aid and CPR for Educators	1		
PSY 4230 Psychology of Adolescence***	3		
General Education	3		
Free Choice Elective	0-1		
<b>Semester Total</b>	<b>15-16</b>		

**Special Education: Severely Developmentally Disabled Major, B.S. in Ed. - 120 hours**

- \*Students must have one biological and one physical science, for a total of seven credit hours. Option 1 = BIOL 1004 and ECEL 1310 or Option 2 = EASC 1004, CHEM 1104, or PHYS 1104 and ECEL 1320
- \*\* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*With permission of advisor, students may substitute PSY 3220 Lifespan Psychology for both PSY 2220 and PSY 4230.
- #These SDD courses (EDSP 4310, 4330, and 4450) are only offered every other year. Please contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track. EDSP 4310 and 4330 are fall semester only, and EDSP 4450 is spring semester only.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## College of Arts, Humanities, and Social Sciences

Department of Theatre and Dance

# SPEECH COMMUNICATION AND THEATRE

SPEECH OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

This Bachelor of Science in Education degree program is designed for students who would like to become secondary speech communication and theatre teachers. In addition to providing teacher certification in speech and theatre, this program emphasizes the humanities, fine arts, education and forensics. All teacher education programs are accredited by the National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education.

Core requirements for this program include theatre classes such as acting, stagecraft and directing, as well as speech communication classes such as foundations of communication theory, small group communication, argumentation and debate, nonverbal communication, and forensics.

Theatre students at UCM are offered acting and technical experiences in contemporary comedies, dramas, the classics and musicals. Professional experience may be gained through work with the Central Missouri Repertory summer company and through student-oriented workshops, seminars and internships.

### Production Opportunities

The theatre production program at UCM places the spotlight on undergraduates. Students begin work immediately in a busy and varied program. Performance opportunities are available in 25 to 30 productions each school year. Countless design, technical and crew positions are offered. Each semester there are two to three Mainstage productions, and students design and direct Studio Theatre one-act plays.

A world premiere of a new Children's Theatre script is staged each year for the public and for area school

children. In addition, students may become involved in acting, directing and writing plays for experimental Black Box theatre productions. Each summer Central Missouri Repertory creates professional opportunities for university theatre students.

### Facilities

Theatre students at UCM work in one of the most beautiful and modern theatre buildings in the Midwest, the James L. Highlander Theatre. The 442-seat continental, wedge-shaped auditorium has excellent acoustics and sight lines and faces a large, fully rigged stage. The theatre is equipped with the latest sound equipment and a 174-dimmer-per-circuit computerized lighting system. A motorized orchestra apron lift allows for flexible staging. Well-equipped costume and scene shops and spacious dressing and makeup rooms adjoin the stage area.

University Housing has worked with the Department of Theatre and Dance to create a Theatre Special Housing Interest Program (SHIP) area in Nickerson Hall designed for students interested in or majoring in theatre. This space includes a Black Box experimental performance space.

### About the Faculty

UCM theatre faculty members possess an impressive range of academic and professional preparation. All faculty members hold terminal degrees in their areas of specialization. They teach and supervise courses in performance, design and technology, history, theory, and criticism. Active research, consultation, seminar and workshop participation, and involvement in professional organizations keep the faculty current with the theatre arts. Students are assigned to department

faculty members who personally assist in the planning of their programs.

### Central Missouri Repertory

Theatre students at UCM have the opportunity to work in a professional summer repertory company that performs on campus and also tours with a children's show throughout west-central Missouri. Providing summer theatre entertainment since 1981, Central Missouri Repertory offers students professional experience working with artists from outside the Department of Theatre and Dance. Auditions and interviews are held during the spring semester for paid, unpaid and university-credit positions.

### Scholarships

The Department of Theatre and Dance offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre and Dance scholarships include Theatre Achievement Awards, and Theatre Ambassador, Highlander, Kuhn, See, New Theatre Guild, Muller, Devenny, Pearce, Ulrich, and Bergman Scholarships. In the Department of Theatre and Dance, students can both work and learn through student employment opportunities in the scenic and costume shops.

### To Learn More

For more information write to the Department of Theatre and Dance, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at [www.ucmo.edu/theatre](http://www.ucmo.edu/theatre).

For admission information, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Speech Communication and Theatre Major - Speech Option, B.S. in Ed. Degree (41-362)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
COMM 1000 Public Speaking	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	HIST 1350 or 1351 United States History	3
<b><i>POLS 1510 American Government</i></b>	3	THEA 1500 Acting	3
<b><i>General Education MATH</i></b>	3	THEA 2400 Discovering Theatre	3
General Education	3	WS 2000 or GEOG 3201 or ANTH 1820	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
COMM 2100 Introduction to Communication Theory	3	COMM 2340 Argumentation & Debate	3
COMM 2330 Small Group Communication	3	COMM 3010 Interpersonal Communication	3
EDFL 2100 Foundations of Education	2	COMM 3390 Forensics	1
FLDX 2150 Introductory Field Experience	1	THEA 3700 Directing	3
EDFL 2240 Educational Psychology	3	Minor Coursework	3
THEA 1600 Stagecraft	3	<b><i>General Education Science w/lab*</i></b>	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
COMM 3325 Nonverbal Communication**	2	COMM 3000 Film Appreciation	3
COMM 3350 Professional Communication**	3	EDFL 4210 Teaching Reading in Secondary	2
PSY 4200 Psychology of Exceptional Child or EDSP 2100 Education of Exceptional Child	2	PSY 4230 Psychology of Adolescence	3
Minor Coursework	6	Minor Coursework	6
General Education	3	General Education (technology)	2-3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16-17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester***</b>	<b>Hrs</b>
COMM 3320 Communication of Social Movements**	3	FLDX 4595 Student Teaching Secondary I	4
COMM or THEA Elective	3	ICAP 4468 Student Teaching Secondary II	5
EDFL 3500 Secondary Teaching & Behavior Management	3	THEA 4920 Secondary Field Experience II	1
FLDX 3550 Practicum in Secondary Instruction	1	THEA 4984 Special Methods Speech & Theatre	2
EDFL 4300 Educational Measurement & Evaluation	2	<b>Semester Total</b>	<b>12</b>
THEA 4400 or 4420 Literature & History of Theatre I or II	3		
Minor Coursework	3		
<b>Semester Total</b>	<b>18</b>		

**Speech Communication and Theatre Major - Speech Option, B.S. in Ed. Degree - 124 hours**

- \*Students pursuing a B.S. in Ed. must complete a biology prefix. The second science course must be a different prefix from the list in the Undergraduate Catalog. One of the two courses must have a laboratory.
- \*\*Course is only offered during the semester indicated.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The above degree plan is based on an 18-hour minor.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.



## College of Arts, Humanities, and Social Sciences

Department of Theatre and Dance

# SPEECH COMMUNICATION AND THEATRE

THEATRE OPTION, BACHELOR OF SCIENCE IN EDUCATION DEGREE

The Bachelor of Science in Education degree program is designed for communication and theatre students who would like to become secondary speech communication and theatre teachers. In addition to providing teacher certification in speech and theatre, this program emphasizes the humanities, fine arts, education and forensics, which provides a laboratory experience in which students compete nationally in impromptu, extemporaneous, informative, persuasive, after-dinner speaking, debate, and literature interpretation programs.

In the theatre program students begin work immediately in a busy and varied program. Performance opportunities are available in 25 to 30 productions each school year. Countless design, technical and crew positions are offered. Each semester there are two to three Mainstage productions, and students design and direct Studio Theatre one-act plays.

A world premiere of a new Children's Theatre script is staged each year for the public and for area school children. The department also produces an annual dance concert. In addition, students may become involved in acting, directing and writing plays for experimental Black Box

theatre productions. Each summer Central Missouri Repertory creates professional opportunities for university theatre students.

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

### Faculty

The Department of Theatre and Dance and the Department of Communication and Sociology provide full-time faculty members with work experience and scholarly expertise in their areas of specialization. Graduate assistants complement the laboratory programs as teachers and managers. An internship program, maintained by department faculty members, provides support and assistance for students interested in working in broadcast stations or media production centers. Students are closely supervised by full-time, tenure-track faculty from the two departments providing the degree.

### Student Involvement

Students are encouraged to take part in co-curricular activities that relate to their major. Communication organizations open

to students include: Communication Honor Society (Lambda Pi Eta), International Association of Business Communicators, the National Broadcasting Association, Public Relations Student Society of America, Society of Professional Journalists, and Pi Kappa Delta.

Students can also participate in debate/forensics. Our nationally competitive team allows students to compete in a variety of debate and individual events. The team has won the Montgomery Cup six times (2001-2006), in an international debate competition held annually throughout Great Britain.

### To Learn More

For more information, write to the Department of Theatre and Dance, Martin 113, Warrensburg, MO 64093; call 660-543-4020; or visit the department's home page at [www.ucmo.edu/theatre](http://www.ucmo.edu/theatre).

For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's web site is [www.ucmo.edu](http://www.ucmo.edu).

**Speech Communication and Theatre Major - Theatre Option, B.S. in Ed. Degree (41-362)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
THEA 1100 Oral Interpretation	3	<b><i>HIST 1350 or 1351 History of the United States</i></b>	3
THEA 1500 Acting	3	THEA 2400 Discovering Theatre	3
THEA 1600 Stagecraft	3	THEA 2610 Design Fundamentals	3
<b><i>General Education MATH</i></b>	3	<b><i>General Education Science w/lab*</i></b>	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
COMM 2330 Small Group Communication	3	COMM 2100 Introduction to Communication Theory	3
COMM 2340 Argumentation & Debate	3	EDSP 2100 Education of the Exceptional Child or	
EDFL 2100 Foundations of Education	2	PSY 4200 Psychology of the Exceptional Child	2
FLDX 2150 Introductory Field Experience	1	THEA 3700 Directing	3
EDFL 2240 Educational Psychology	3	Minor Coursework	3
POLS 1510 American Government	3	General Education	5-6
Minor Coursework	3	<b>Semester Total</b>	<b>16-17</b>
<b>Semester Total</b>	<b>18</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
COMM 3325 Nonverbal Communication (fall only)	2	PSY 4230 Psychology of Adolescence	3
COMM 3390 Forensics	1	THEA 3630 Studio Theatre I	1
COMM or THEA Electives	4	THEA 4420 Literature & History of the Theatre II	3
EDFL 4300 Educational Measurement & Evaluation	2	Minor Coursework	3
THEA 4400 Literature & History of the Theatre I	3	General Education	6
Minor Coursework	3	<b>Semester Total</b>	<b>16</b>
General Education	3		
<b>Semester Total</b>	<b>18</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs.</b>
EDFL 3500 Secondary Teaching & Behavior Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
EDFL 4210 Teaching of Reading in the Secondary School	2	THEA 4920 Secondary Field Experience II	1
THEA 4730 Studio Theatre II	1	THEA 4984 Methods of Teaching Speech & Theatre	2
Minor Coursework	6	<b>Semester Total</b>	<b>12</b>
General Education	3		
<b>Semester Total</b>	<b>16</b>		

**Speech Communication and Theatre Major – Theatre Option, B.S. in Ed. Degree - 127 hours**

- \*Students pursuing a B.S. in Ed. must complete a biology prefix. The second science course must be a different prefix from the list in the Undergraduate Catalog. One of the two courses must have a laboratory.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The above degree plan is based on an 18-hour minor.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

## Harmon College of Business and Professional Studies

Department of Communication Disorders and Social Work

# SPEECH-LANGUAGE PATHOLOGY

## BACHELOR OF SCIENCE DEGREE

University of Central Missouri's program in communication disorders provides professional education for future speech-language pathologists and audiologists. Students learn about the diagnosis and treatment of human communication disorders, related research, and how to directly and indirectly assist people with communication disabilities.

The program includes theory and practical application coursework, as well as supervised clinical experiences.

Speech-language pathologists evaluate, diagnose and treat human communication disorders in individuals of all ages. These include disorders of articulation, voice, stuttering, language and swallowing. Speech-language pathologists work closely with teachers, physicians, psychologists, social workers, rehabilitation counselors and other members of an interdisciplinary team. In addition to focusing on the evaluation, diagnosis and treatment of communication disorders, speech-language pathologists develop new methods and equipment to evaluate communication disorders, establish more effective treatment programs, and investigate behavioral patterns associated with communication disorders. The entry level degree for a practicing speech-language pathologist is the master's degree. The Department of Communication and Sociology Disorders at UCM has an outstanding graduate program.

Undergraduate requirements include 59 semester hours regarding the study of speech and hearing anatomy and neurology, phonetics, language and articulation development, assessment and intervention in diverse

populations, hearing measurement, aural rehabilitation and clinical management and treatment for communication disorders.

Undergraduate students in communication disorders participate in clinical practica during their last two semesters, where students provide supervised treatment of individuals with speech and/or hearing disorders. With an undergraduate degree, an individual may pursue a master's degree in fields such as speech-language pathology, audiology, special education, general education, early intervention, rehabilitation, mental health, public health, medical fields or health law. A person holding an undergraduate degree in communication disorders may gain employment as a registered speech-language pathology assistant or may seek careers developing, promoting or selling products for use in the clinical, educational, health care, or rehabilitation fields. Graduates may work in related fields such as rehabilitation counseling, job coaching or academic advising. They may serve as clinical assistants and support staff, clinical intake specialists and technology support staff.

Speech-language pathologists often work with individuals with hearing impairments. A solid knowledge about audiology is important and is reflected in the coursework and clinical training that is taught and supervised by audiology faculty.

### Special Facilities

UCM's Welch-Schmidt Center for Communication Disorders has eight treatment rooms with two-way mirrors, video and audio monitoring, an early childhood preschool for children with

speech and language disorders, and a voice and swallowing laboratory including rigid and flexible endoscopy, a FEES station and instrumentation to measure airflow/pressure, movement, force and voice acoustics. The center also contains a Functional Communication Clinic, an Augmentative and Alternative Communication (ACC) Clinic, containing an array of state-of-the-art AAC devices, and a Feeding and Swallowing Clinic. These clinics provide students with special opportunities to move learning from the classroom to a therapeutic setting.

There are two audiologic suites where assessments, to include hearing evaluations, immittance audiometry, video otoscopy, and otoacoustic emissions, are performed. The hearing aid laboratory is equipped with the latest technology for the fitting and dispensing of hearing instruments.

A variety of current assessment and treatment materials are available for students. Computers and software to support clinical education are located in the treatment rooms, labs, and in the student clinician workroom.

### To Learn More

For more information, write to the Department of Communication Disorders and Social Work, Martin 34 UCM, Warrensburg, MO 64093; call 660-543-4993; email [comdisorders@UCM.edu](mailto:comdisorders@UCM.edu); fax 660-543-8234; or visit the department's web site at [www.ucmo.edu/comdisorders](http://www.ucmo.edu/comdisorders). For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Speech-Language Pathology Major, B.S. Degree (43-273)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
BIOL 1003 or 1004 Introduction to the Sciences: Ecology	3-4	CD 2301 American Phonetics	3
CD 1000 Introduction to Communication Disorders	3	ENGL 1030 Composition II	3
CD 1800 Observation of Clinical Practicum in CD	1	General Education	9
ENGL 1020 Composition I	3	<b>Semester Total</b>	<b>15</b>
General Education	3		
<b>Semester Total</b>	<b>13-14</b>		
AE 1400 Freshman Seminar (CD Section)*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
CD 3301 Anatomy & Physiology of Speech & Swallowing	2	CD 3304 Speech Science	3
COMM 1000 Public Speaking	3	General Education	9
PSY 1100 General Psychology	3	Free Choice Elective**	3
General Education	8-9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16-17</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
CD 1401 American Sign Language I	3	CD 3503 Principles of Clinical Management	3
CD 4401 Language Development	2	CD 4505 School-age Issues in Language & Literacy	3
CD 4501 Basic Neuroscience for Speech-Language Path.	3	CD 4706 Hearing Measurement	3
CD 4504 Intro. to Articulation & Phonological Disorders	3	HED 4330 First Aid & CPR for Educators	1
CD 4701 Introduction to Audiology	3	Free Choice Electives**	6
PSY 3220 Lifespan Development	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
CD 4102 Couns. Persons w/Comm. Dis. & Their Families	2	CD 4512 Best Practices in Early Childhood Intervention	3
CD 4103 Intro. to Evidence Based Practice in Comm. Dis.	2	CD 4803 Undergraduate Clinical Practicum II	1
CD 4510 Multicultural Issues in Communication Disorders	2	EDSP 4700 IEP and the Law	3
CD 4708 Aural Rehabilitation	3	General Education (IGEN/ICAP)	3
CD 4802 Undergraduate Clinical Practicum I	1	Free Choice Electives**	5
PSY 4520 Statistics for the Behavioral Sciences	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>13</b>		

**Speech-Language Pathology Major, B.S. Degree - Minimum hours to graduate 120**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*The number of free choice electives required will depend on selections made in the major and general education.
- Students must contact the undergraduate advisor in the Department of Communication and Sociology Disorders for admission into the program.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# STUDIO ART: CERAMICS

BACHELOR OF FINE ARTS DEGREE

University of Central Missouri students majoring in studio art and pursuing the Bachelor of Fine Arts (BFA) in the areas of either Ceramics, Painting, Printmaking, or Sculpture will be expected to demonstrate the highest level of ability in foundation art courses and clearly excel in their chosen area of emphasis.

Studio majors who earn the BFA degree in one of these areas often pursue careers as college or university professors by continuing their education and earning the necessary graduate degrees. Others may work as freelance artists, and in related fields that allow for a lifetime of artistic production.

Studio classes emphasize a strong beginning in foundation art. Upper-level courses push students to specialize in their chosen area of emphasis: ceramics, painting, printmaking, or sculpture. Students use traditional and contemporary forms of expression to develop their unique visual language. Studio art majors in ceramics, painting, printmaking, and sculpture pursue exhibiting their works in museums, commercial art galleries, corporate collections and private homes. If

they achieve at a high enough level, their artwork may be commissioned on request from clients, or sold either directly by the artist or through private art galleries or dealers.

Employment of artists and related workers is expected to grow as fast as the average for all occupations.

Because the arts attract many talented people with creative ability, the number of aspiring artists continues to grow.

### Facilities

Studio art majors in ceramics, painting, printmaking, and sculpture at UCM find excellent facilities, individualized working spaces and nationally acclaimed faculty mentors. The department beautifully renovated Gallery of Art & Design schedules diverse exhibitions and provides students opportunities to exhibit their own work, and the opportunity to win awards and scholarship funding through competitive exhibitions of student work. UCM offers studio art majors, and others, a solid visual arts foundation in a richly diverse and creative environment.

### Accreditation

University of Central Missouri is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state-supported 4-year school in Missouri with such accreditation. UCM has held NASAD accreditation continuously since 1986. Of the approximately 2,000 college art programs nationwide, NASAD has approved less than 15 percent, based on proven rigor and content.

### For more information

To learn more, write the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Studio Art Major (Ceramics Area), B.F.A. Degree (47-263)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART 2412 Ceramics I	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 1825 Art History Survey II (spring)	3
ART 2420 Sculpture I	3	ART 2511 Painting I	3
ART 3209 Figure Construction	3	ART 2710 Printmaking I	3
ART 3412 Ceramics II	3	ART 3412 Ceramics II	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2335 Design III	3	ART 4412 Ceramics III	3
ART 3110 Drawing II	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemp. Art & Design (spring)	3
ART 3412 Ceramics II	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ART 4412 Ceramics III	3	ART 4412 Ceramics III	3
ART Electives*	6	ART 4020 Studio Seminar	3
General Education	6	ICAP 4221 Artists in Contemporary Society	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**Studio Art Major (Ceramics Area), B.F.A. Degree - 126 hours**

- \*Students must choose 15 hours of ART major electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# STUDIO ART: ILLUSTRATION

## BACHELOR OF FINE ARTS DEGREE

Through the University of Central Missouri's Bachelor of Fine Arts (BFA) degree in Studio Art, with an emphasis in Illustration, students develop their creative talents and technical skills to become illustrators.

Students master creative problem solving, conceptual and aesthetic judgment, and the use of computer technology as an art tool through instruction from highly experienced faculty and from hands-on experience in studios and laboratories.

### Traditional and Electronic Media

The Illustration Emphasis Area stresses mastery of traditional media in drawing and painting, but students are also encouraged to use 3D media when the idea warrants this approach. Students also learn to use the computer as an art tool.

In early program area classes Studio Art, Illustration majors follow the same path as Graphic Design majors, allowing them to learn basic graphic design skills that make intensive use of the computer. In this way students come to better understand how the illustrator's job relates to that of the graphic designer and the teamwork that is an important part of work in both fields.

### Career Opportunities

There are career opportunities available globally and for a wide range of salaries. Typical kinds of work assignments include illustration executed for magazines, newspapers, newsletters, annual reports, advertising, book jackets, CD covers, posters, etc. The Illustration program has kept up with a changing industry and graduates hold fulfilling employment across the nation and in many foreign countries. Because of this, UCM's program continues to grow in both numbers and quality. The combination of talent, motivation, program content, and excellent instruction continues to serve our commercial art students' career objectives well.

### State-of-the Art Facilities

For their work using electronic technology, students utilize labs containing up-to-date Macintosh computers, software, scanners, printers and other peripherals that are standard in their career field.

### Accreditation

UCM's Department of Art & Design is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state-supported four-year school in Missouri with such accreditation. UCM has held NASAD accreditation since 1986. Of the approximately 2,000 college art programs nationwide, NASAD has approved less than 15 percent, based on proven rigor and content.

### For More Information

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For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Studio Art Major (Illustration Area), B.F.A. Degree (47-263)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART Elective*	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall ) or ART 1835 Survey of Non-Western Art History (spring)	3	ART 1825 Art History Survey II	3
ART 2335 Design III	3	ART 2511 Painting I	3
ART 2610 Introduction to Graphic Design & Illustration	3	ART 2710 Printmaking I	3
ART 3610 Typography	3	ART 3209 Figure Construction	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2420 Sculpture I	3	ART 2412 Ceramics I	3
ART 3110 Drawing III	3	ART 3635 Illustration Concepts	3
ART 3625 Illustration Techniques	3	ART Elective*	3
ART 4850 20th Century Art & Arch. (fall) or ART 4860 Contemp. Art & Design (spring)	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ART 4625 Advanced Illustration I	3	ART 4020 Studio Seminar	3
Art Electives*	6	ART 4635 Advanced Illustration II	3
General Education	6	ART Elective*	3
<b>Semester Total</b>	<b>15</b>	ICAP 4221 Artists in Contemporary Society	3
		General Education	6
		<b>Semester Total</b>	<b>18</b>

**Studio Art Major (Illustration Area), B.F.A. Degree - 126 hours**

- \*Students must choose 15 hours of ART electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# STUDIO ART: PAINTING

## BACHELOR OF FINE ARTS DEGREE

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Studio majors who earn the BFA degree in one of these areas often pursue careers as college or university professors by continuing their education and earning the necessary graduate degrees. Others may work as freelance artists, and in related fields that allow for a lifetime of artistic production.

Studio classes emphasize a strong beginning in foundation art. Upper-level courses push students to specialize in their chosen area of emphasis: ceramics, painting, printmaking, or sculpture. Students use traditional and contemporary forms of expression to develop their unique visual language. Studio art majors in ceramics, painting, printmaking, and sculpture pursue exhibiting their works in museums, commercial art galleries, corporate collections and private homes. If they achieve at a high enough level,

their artwork may be commissioned on request from clients, or sold either directly by the artist or through private art galleries or dealers.

Employment of artists and related workers is expected to grow as fast as the average for all occupations.

Because the arts attract many talented people with creative ability, the number of aspiring artists continues to grow.

### Facilities

Studio art majors in ceramics, painting, printmaking, and sculpture at UCM find excellent facilities, individualized working spaces and nationally acclaimed faculty mentors. The department beautifully renovated Gallery of Art & Design schedules diverse exhibitions and provides students opportunities to exhibit their own work, and the opportunity to win awards and scholarship funding through competitive exhibitions of student work. UCM offers studio art majors, and others, a solid visual arts foundation in a richly diverse and creative environment.

### Accreditation

University of Central Missouri is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state-supported 4-year school in Missouri with such accreditation. UCM has held NASAD accreditation continuously since 1986. Of the approximately 2,000 college art programs nationwide, NASAD has approved less than 15 percent, based on proven rigor and content.

### For more information

To learn more, write the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Studio Art Major (Painting Area), B.F.A. Degree (47-263)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART 2511 Painting I	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 1825 Art History Survey II (spring)	3
ART 2335 Design III	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2710 Printmaking I	3
ART 3511, 3513, or 3515 (Painting II, Painting II Plein Air (fall), or Painting II Figure (spring))	3	ART 3511, 3513, or 3515 (Painting II, Painting II Plein Air (fall), or Painting II Figure (spring))	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2420 Sculpture I	3	ART 3510 Watercolor	3
ART 3110 Drawing III	3	ART 4511 Painting III	3
ART 3511, 3513, or 3515 (Painting II, Painting II Plein Air (fall), or Painting II Figure (spring))	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
ART Elective*	3	ART Elective*	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ART 4511, 4513, or 4515 (Painting III, Painting III Plein Air (fall), or Painting III Figure (spring))	3	ART 4511, 4513, or 4515 (Painting III, Painting III Plein Air (fall), or Painting III Figure (spring))	3
ART Electives*	6	ART Elective*	3
General Education	6	ICAP 4221 Artists in Contemporary Society	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**Studio Art Major (Painting Area), B.F.A. Degree - 126 hours**

- \*Students must choose 15 hours of ART major electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# STUDIO ART: PRINTMAKING

## BACHELOR OF FINE ARTS DEGREE

University of Central Missouri students majoring in studio art and pursuing the Bachelor of Fine Arts (BFA) in the areas of either Ceramics, Painting, Printmaking, or Sculpture will be expected to demonstrate the highest level of ability in foundation art courses and clearly excel in their chosen area of emphasis.

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Employment of artists and related workers is expected to grow as fast as the average for all occupations.

Because the arts attract many talented people with creative ability, the number of aspiring artists continues to grow.

### Facilities

Studio art majors in ceramics, painting, printmaking, and sculpture at UCM find excellent facilities, individualized working spaces and nationally acclaimed faculty mentors. The department beautifully renovated Gallery of Art & Design schedules diverse exhibitions and provides students opportunities to exhibit their own work, and the opportunity to win awards and scholarship funding through competitive exhibitions of student work. UCM offers studio art majors, and others, a solid visual arts foundation in a richly diverse and creative environment.

### Accreditation

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### For more information

To learn more, write the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Studio Art Major (Printmaking Area), B.F.A. Degree (47-263)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART 2710 Printmaking I	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 1825 Art History Survey II (spring)	3
ART 2335 Design III	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2511 Painting I	3
ART 3710 Printmaking II	3	ART 3710 Printmaking II	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
ART 2420 Sculpture I	3	ART 3720 Printmaking III	3
ART 3110 Drawing III	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
ART 3710 Printmaking II	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6		
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
ART 3720 Printmaking III	3	ART 3720 Printmaking III	3
ART Electives*	6	ART 4020 Studio Seminar	3
General Education	6	ICAP 4221 Artists in Contemporary Society	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**Studio Art Major (Printmaking Area), B.F.A. Degree - 126 hours**

- \*Students must choose 15 hours of ART major electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Art & Design

# STUDIO ART: SCULPTURE

## BACHELOR OF FINE ARTS DEGREE

University of Central Missouri students majoring in studio art and pursuing the Bachelor of Fine Arts (BFA) in the areas of either Ceramics, Painting, Printmaking, or Sculpture will be expected to demonstrate the highest level of ability in foundation art courses and clearly excel in their chosen area of emphasis.

Studio majors who earn the BFA degree in one of these areas often pursue careers as college or university professors by continuing their education and earning the necessary graduate degrees. Others may work as freelance artists, and in related fields that allow for a lifetime of artistic production.

Studio classes emphasize a strong beginning in foundation art. Upper-level courses push students to specialize in their chosen area of emphasis: ceramics, painting, printmaking, or sculpture. Students use traditional and contemporary forms of expression to develop their unique visual language. Studio art majors in ceramics, painting, printmaking, and sculpture pursue exhibiting their works in museums, commercial art galleries, corporate collections and private homes. If

they achieve at a high enough level, their artwork may be commissioned on request from clients, or sold either directly by the artist or through private art galleries or dealers.

Employment of artists and related workers is expected to grow as fast as the average for all occupations.

Because the arts attract many talented people with creative ability, the number of aspiring artists continues to grow.

### Facilities

Studio art majors in ceramics, painting, printmaking, and sculpture at UCM find excellent facilities, individualized working spaces and nationally acclaimed faculty mentors. The department beautifully renovated Gallery of Art & Design schedules diverse exhibitions and provides students opportunities to exhibit their own work, and the opportunity to win awards and scholarship funding through competitive exhibitions of student work. UCM offers studio art majors, and others, a solid visual arts foundation in a richly diverse and creative environment.

### Accreditation

University of Central Missouri is accredited by the National Association of Schools of Art and Design (NASAD). UCM is the only state-supported 4-year school in Missouri with such accreditation. UCM has held NASAD accreditation continuously since 1986. Of the approximately 2,000 college art programs nationwide, NASAD has approved less than 15 percent, based on proven rigor and content.

### For more information

To learn more, write the Department of Art & Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at [www.ucmo.edu/art](http://www.ucmo.edu/art).

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is [www.ucmo.edu](http://www.ucmo.edu).

**Studio Art Major (Sculpture Area), B.F.A. Degree (47-263)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year</b> - Fall Semester	<b>Hrs.</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART 2420 Sculpture I	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 1825 Art History Survey II (spring)	3
ART 2335 Design III	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2511 Painting I	3
ART 3420 Sculpture II	3	ART 2710 Printmaking I	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>

<b>Junior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs.</b>
ART 2710 Printmaking I	3	ART 4420 Sculpture III	3
ART 3110 Drawing III	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemp. Art & Design (spring)	3
ART 3420 Sculpture II	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

<b>Senior Year</b> - Fall Semester	<b>Hrs.</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs.</b>
ART 4420 Sculpture III	3	ART 4020 Studio Seminar	3
ART Electives*	6	ART 4420 Sculpture III	3
General Education	6	ICAP 4221 Artists in Contemporary Society	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**Studio Art Major (Sculpture Area), B.F.A. Degree - 126 hours**

- \*Students must choose 15 hours of ART electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Health, Science, and Technology

School of Technology

# TECHNOLOGY (TRANSFER PROGRAM)

## BACHELOR OF SCIENCE DEGREE

The Technology (transfer program) at the University of Central Missouri prepares individuals for a professional career in business. This program builds on technical courses of an associate degree in the field of applied sciences and technology. Thirty-eight semester hours of junior/senior division coursework in the major must be taken through UCM.

The Technology curriculum concentrates on technical management courses that include quality supervision, scheduling/control, engineering principles, safety, work design, ergonomics, plant layout, cost estimating, and team problem solving.

In addition to these studies, the transfer student will also need to complete additional general education courses, which can be taken at any accredited two-year or four-year college or university, as long as they are equivalent to UCM's courses. Currently, we have program options in Manufacturing, Management, Construction, Electronics, General Technology, Quality Systems.

### Student Involvement

Student Organization of Construction Managers (SOCM), and the Society of Manufacturing Engineers (SME) relate to this degree program. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### Professional Accreditation

University of Central Missouri's baccalaureate programs in automotive management, computer-aided drafting and design, construction management, and electronics are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### Scholarships

UCM offers nearly \$5 million in merit-based scholarships to its students each year. In addition to achievement awards, the School of Technology offers a wide variety of scholarships. Students may also compete for School of Technology scholarships, including Dougherty, Kay, Walker, and Weisel scholarships from the Society of Manufacturing Engineers and its foundation, as well as the Grinstead Scholarship.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, or call 1-660-543-4439. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology) and its fax number is 1-660-543-4578.

For admission information, call 877-SAY-UCMO (877-729-8266) or access UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

No 4-Year Plan Provided



## College of Health, Science, and Technology

School of Technology

# TECHNOLOGY

BACHELOR OF SCIENCE DEGREE

The Technology program at the University of Central Missouri prepares students for professional careers in business. It is intended for students who do not have an associate in science or an associate in applied science degree. By combining carefully selected technical and management courses, the program prepares students to function in technical and decision-making situations. Employers hire technology graduates because they are productive problem solvers and decision-makers. Starting salaries for technology graduates with industry experience are among the highest for all majors at UCM.

### Student Involvement

Student Organization of Construction Managers (SOCM), and the Society of Manufacturing Engineers (SME) relate to this degree program. In addition, the Association of Technology, Management, and Applied Engineering (ATMAE) student group now exists within the School of Technology.

### Professional Accreditation

University of Central Missouri's baccalaureate programs in automotive management, computer-aided drafting and design, construction management, and electronics are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

### Scholarships

UCM offers nearly \$5 million in merit-based scholarships to its students each year; technology students are also eligible for departmental achievement scholarships. In addition, various industry scholarships are available, such as from the Society of Manufacturing Engineers Foundation.

### To Learn More

For more information, write to the School of Technology, Grinstead 9, UCM, Warrensburg, MO 64093, or call 660-543-4439. The school's web address is [www.ucmo.edu/technology](http://www.ucmo.edu/technology) and its fax number is 660-543-4578.

For admission information, call 877-SAY-UCMO (877-729-8266) or access UCM's home page at [www.ucmo.edu](http://www.ucmo.edu).

**Technology, B.S. Degree (43-289)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
ET 1010 Appl. Electricity or ET 1020 General Electronics*	3-4	ECON 1010 Principles of Macroeconomics	3
ET 1050 Digital Principles & Applications*	4	CADD 1105 Basic AutoCAD	1
ATM 1010 Contemporary Power Systems	3	CADD 1110 Fundamentals of Drafting	2
General Education	3	General Education	6
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting	3	ENGT 2040 Engineering Materials Science	4
ENGT 2530 Machine Tool Technology	3	CADD 2170 Introduction to Computer-Aided Drafting	2
General Education	9	PHYS 1104 Introduction to the Sciences: Physics	4
<b>Semester Total</b>	<b>15</b>	General Education	5
		<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
GEOG 3201 The Cultural Landscape	3	COMM 3010 Interpersonal Communication	3
SAFE 3000 Principles of Accident Causation & Prevention	3	ENGT 3562 Computer Numerical Control (CNC)*	3
Upper Level Major Elective**	3-4	Upper Level Major Elective**	3
Free Choice Electives***	6	Free Choice Electives***	5-7
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>14-16</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
INDM 4210 Industrial Management	3	ICAP 4110 Engineering Technology Problem Solving or	
INDM 4250 Project Management	3	IGEN 3116 Creative Problem Solving	3
ATM 4032 Hydraulics & Pneumatics	3	General Education	3
Free Choice Electives***	6	Free Choice Electives***	7
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</b>

**Technology, B.S. Degree - 120 hours**

- \*This course is only offered during the semester indicated.
- \*\*Thirty hours of upper level credit (3000/4000) must be earned to meet graduation requirements. Choose 6-7 hours of upper level credit in the major electives from the following prefixes: ATM, CADD, CMGT, ENGT, ET, INDM, SOT or TECH.
- \*\*\*The number of free choice electives required will depend on selections made in the major and general education.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Theatre and Dance

# THEATRE

## BACHELOR OF ARTS DEGREE

Students enrolled in the University of Central Missouri's Bachelor of Arts degree program in theatre study subjects such as oral interpretation, script analysis, acting, stage voice, stage movement, stagecraft design, and directing. Classes in the literature and history of the theatre, studio theatre, and electives in theatre complete the program of study.

Theatre students at UCM are offered acting and technical experiences in contemporary comedies, dramas, the classics and musicals. Professional experience may be gained through work with the Central Missouri Repertory summer company and through varied student-oriented workshops, seminars and internships.

### Production Opportunities

The theatre production program at Central Missouri places the spotlight on undergraduates. Students begin work immediately in a busy and varied program. Performance opportunities are available in 25 to 35 productions each school year. Countless design, technical and crew positions are offered. Each semester there are two Mainstage productions, and students design and direct Studio Theatre one-act plays.

A world premiere of a new Children's Theatre script is staged each year for the public and for area school children. The department also produces an annual dance concert. In addition, students may become involved in acting, directing and writing plays for experimental Black Box theatre productions. Each summer Central Missouri Repertory creates professional opportunities for UCM theatre students.

### Facilities

Theatre students at UCM work in one of the most beautiful and modern theatre buildings in the Midwest, the James L. Highlander Theatre. The 442-seat continental, wedge-shaped auditorium has excellent acoustics and sight lines and faces a large, fully rigged stage. The theatre is equipped with the latest sound equipment and a 174-dimmer-per-circuit computerized lighting system. A motorized orchestra apron lift allows for flexible staging. Well-equipped costume and scene shops and spacious dressing and makeup rooms adjoin the stage area.

University Housing has worked with the department to create a Theatre Special Housing Interest Program (SHIP) area in Nickerson Hall designed for students interested in or majoring in theatre. This SHIP provides close proximity to the department's Black Box Theatre, also located in Nickerson, convenient class space, a lounge to rehearse lines, blocking, etc., and access to conveniently located dining facilities. In 2011, the department added a fully equipped dance studio.

### About the Faculty

UCM's theatre faculty members possess an impressive range of academic and professional preparation. All faculty members hold terminal degrees in their areas of specialization. They teach and supervise courses in performance, design and technology, history, theory, and criticism. Active research, consultation, seminar and workshop participation, and involvement in professional organizations keep the faculty current with the theatre arts. Students are assigned to department faculty members who personally assist in the planning of their programs.

### Central Missouri Repertory

Theatre students at Central Missouri have the opportunity to work in a professional summer repertory company that performs on campus and also tours with a children's show throughout west-central Missouri. Providing summer theatre entertainment since 1981, Central Missouri Repertory offers students professional experience working with artists from outside the Department of Theatre and Dance. Auditions and interviews are held during the spring semester for paid, unpaid and university-credit positions.

### Scholarships

The Department of Theatre and Dance offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre and Dance scholarships include Theatre Achievement Awards, and Theatre Ambassador, Highlander, Kuhn, See, New Theatre Guild, Muller, Devenny, Pearce, Ulrich, Schwartz, and Bergman Scholarships. In the Department of Theatre and Dance, students can both work and learn through student employment opportunities in the scenic and costume shops.

### To Learn More

For more information write to the Department of Theatre and Dance, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at [www.ucmo.edu/theatre/](http://www.ucmo.edu/theatre/).

For admission information, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Theatre Major, B.A. Degree (42-364)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation	3
THEA 1500 Acting	3	THEA 1600 Stagecraft	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
THEA 1510 Stage Movement	3	THEA 1520 Stage Voice	3
THEA 2610 Design Fundamentals	3	General Education	12
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
THEA 3600 Scene Design, THEA 3610 Costume Design, or THEA 3620 Lighting Design	3	Minor Coursework	6
THEA 3700 Directing	3	General Education	9
Minor Coursework	6	<b>Semester Total</b>	<b>15</b>
Free Choice Elective	3		
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
THEA 3630 Studio Theatre I	1	IGEN 3116, 3224, 3232, 4234, or 4244	3
THEA 4400 Literature & History of the Theatre I	3	THEA 4420 Literature & History of the Theatre II	3
Theatre Elective	3	THEA 4730 Studio Theatre II	1
Minor Coursework	6	Minor Coursework	6
Free Choice Electives	4	Free Choice Elective	4
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>17</b>

**Theatre Major, B.A. Degree - 124 hours**

- \* Refer to the Bachelor's Degree Requirements section for fulfillment options of the BA Modern Language requirements. This plan is based on nine hours of modern language.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- This plan is based on a 24-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Theatre and Dance

# THEATRE

## BACHELOR OF FINE ARTS DEGREE (PERFORMANCE OPTION)

Students pursuing a Bachelor of Fine Arts major in theatre select a concentration in either performance or design and theatre technology. In addition to classes in acting, directing, design, theatre management and script analysis, students learn about the literature and history of the theatre, stagecraft, studio theatre, and advanced technical theatre courses. Electives in departmentally approved supporting courses and theatre courses round out the program of study.

A concentration in performance includes classes such as stage voice, stage movement, advanced acting, period acting styles, advanced scene study, stage makeup and advanced directing, as well as electives from technical concentration courses.

### Production Opportunities

The theatre production program at Central Missouri places the spotlight on undergraduates. Students begin work immediately in a busy and varied program. Performance opportunities are available in 25 to 35 productions each school year. Countless design, technical and crew positions are offered. Each semester there are two Mainstage productions, and students design and direct Studio Theatre one-act plays.

A world premiere of a new Children's Theatre script is staged each year for the public and for area school children. The department also produces an annual dance concert. In addition, students may become involved in acting, directing and writing plays for experimental Black Box theatre productions. Each summer Central Missouri Repertory creates professional opportunities for UCM theatre students.

### Facilities

Theatre students at Central Missouri work in one of the most beautiful and modern theatre buildings in the Midwest, the James L. Highlander Theatre. The 442-seat continental, wedge-shaped auditorium has excellent acoustics and sight lines and faces a large, fully rigged stage. The theatre is equipped with the latest sound equipment and a 174-dimmer-per-circuit computerized lighting system. A motorized orchestra apron lift allows for flexible staging. Well-equipped costume and scene shops and spacious dressing and makeup rooms adjoin the stage area.

University Housing has worked with the department to create a Theatre Special Housing Interest Program (SHIP) area in Nickerson Hall designed for students interested in or majoring in theatre. This SHIP provides close proximity to the department's Black Box Theatre, also located in Nickerson, convenient class space, a lounge to rehearse lines, blocking, etc., and access to conveniently located dining facilities. In 2011, the department added a fully equipped dance studio.

### About the Faculty

UCM's theatre faculty members possess an impressive range of academic and professional preparation. All faculty members hold terminal degrees in their areas of specialization. They teach and supervise courses in performance, design and technology, history, theory, and criticism. Active research, consultation, seminar and workshop participation, and involvement in professional organizations keep the faculty current with the theatre arts. Students are assigned to department

faculty members who personally assist in the planning of their programs.

### Central Missouri Repertory

Theatre students at UCM have the opportunity to work in a professional summer repertory company that performs on campus and also tours with a children's show throughout west-central Missouri. Providing summer theatre entertainment since 1981, Central Missouri Repertory offers students professional experience working with artists from outside the department. Auditions and interviews are held during the spring semester for paid, unpaid, and university-credit positions.

### Scholarships

The Department of Theatre and Dance offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre and Dance scholarships include Theatre Achievement Awards, and Theatre Ambassador, Highlander, Kuhn, See, New Theatre Guild, Muller, Devenny, Pearce, Ulrich, Schwartz, and Bergman Scholarships. In the department, students can both work and learn through student employment opportunities in the scenic and costume shops.

### To Learn More

For more information write to the Department of Theatre and Dance, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at [www.ucmo.edu/theatre/](http://www.ucmo.edu/theatre/).

For admission information, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Theatre Major (Performance Option), B.F.A. Degree (47-366)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation	3
THEA 1500 Acting	3	THEA 1520 Stage Voice	3
THEA 1600 Stagecraft	3	THEA 1610 Stage Makeup	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
THEA 1510 Stage Movement	3	THEA 3700 Directing	3
THEA 2610 Design Fundamentals	3	Technical Theatre Course Elective	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
THEA 3500 or 4500 or 4510	3	THEA 3500 or 4500 or 4510	3
THEA 4310 Principles of Theatre Management	3	THEA 4300 Professional Practices	1
THEA 4300 Professional Practices	1	Department-Approved Support Course	3
THEA 4400 Literature & History of the Theatre I	3	Technical Theatre Course Elective	3
Department-Approved Support Course	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
THEA 3630 Studio Theatre I	1	IGEN 3116, 3224, 3232, 4234, or 4244	3
THEA 4300 Professional Practices	1	THEA 4420 Literature & History of the Theatre II	3
Department-Approved Support Course	3	THEA 4710 Advanced Directing	3
Technical Theatre Course Elective	3	THEA 4730 Studio Theatre II	1
General Education	3	THEA 4910 Senior Showcase	1
Free Choice Electives	6	Free Choice Electives	4
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

**Theatre Major (Performance Option), B.F.A. Degree - 124 hours**

- \* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.

## College of Arts, Humanities, and Social Sciences

Department of Theatre and Dance

# THEATRE

## BACHELOR OF FINE ARTS DEGREE (DESIGN/TECHNOLOGY OPTION)

Students pursuing a Bachelor of Fine Arts degree in theatre select a concentration in either performance or design and theatre technology. In addition to classes in acting, directing, design, theatre management and script analysis, students learn about the literature and history of the theatre, stagecraft, studio theatre, and advanced technical theatre courses.

A concentration in design/technical theatre might include classes in design fundamentals, costume technology, scene design, costume design, lighting design, advanced technical theatre, advanced stage lighting and sound, and electives from performance concentration courses.

### Production Opportunities

The theatre production program at Central Missouri places the spotlight on undergraduates. Students begin work immediately in a busy and varied program. Performance opportunities are available in 25 to 35 productions each school year. Countless design, technical and crew positions are offered. Each semester there are two Mainstage productions, and students design and direct Studio Theatre one-act plays.

A world premiere of a new Children's Theatre script is staged each year for the public and for area school children. The department also produces an annual dance concert. In addition, students may become involved in acting, directing and writing plays for experimental Black Box theatre productions.

### Facilities

Theatre students at Central Missouri work in one of the most beautiful and modern theatre buildings in the Midwest, the James

L. Highlander Theatre. The 442-seat continental, wedge-shaped auditorium has excellent acoustics and sight lines and faces a large, fully rigged stage. The theatre is equipped with the latest sound equipment and a 174-dimmer-per-circuit computerized lighting system. A motorized orchestra apron lift allows for flexible staging. Well-equipped costume and scene shops and spacious dressing and makeup rooms adjoin the stage area.

University Housing has worked with the Department of Theatre and Dance to create a Theatre Special Housing Interest Program (SHIP) area in Nickerson Hall designed for students interested in or majoring in theatre. This SHIP provides close proximity to the department's Black Box Theatre. In 2011, the department added a fully equipped dance studio.

### About the Faculty

UCM's theatre faculty members possess an impressive range of academic and professional preparation. All faculty members hold terminal degrees in their areas of specialization. They teach and supervise courses in performance, design and technology, history, theory, and criticism. Active research, consultation, seminar and workshop participation, and involvement in professional organizations keep the faculty current with the theatre arts.

### Central Missouri Repertory

Theatre students at UCM have the opportunity to work in a professional summer repertory company that performs on campus and also tours with a children's show throughout west-central Missouri. Providing summer theatre entertainment since 1981, Central Missouri Repertory

offers students professional experience working with artists from outside the Department of Theatre and Dance. Auditions and interviews are held during the spring semester for paid, unpaid and university-credit positions.

### Scholarships

The Department of Theatre and Dance offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre and Dance scholarships include Theatre Achievement Awards, and Theatre Ambassador, Highlander, Kuhn, See, New Theatre Guild, Muller, Devenny, Pearce, Ulrich, Schwartz, and Bergman Scholarships. In the Department of Theatre and Dance, students can both work and learn through student employment opportunities in the scenic and costume shops.

### To Learn More

For more information write to the Department of Theatre and Dance, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at [www.ucmo.edu/theatre](http://www.ucmo.edu/theatre).

For admission information, call 877-SAY-UCMO (877-729-8266) or visit [www.ucmo.edu](http://www.ucmo.edu).

**Theatre Major (Design/Technology Option), B.F.A. Degree (47-366)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs.</b>
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation	3
THEA 1500 Acting	3	THEA 2610 Design Fundamentals	3
THEA 1600 Stagecraft	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs.</b>
THEA 2620 Costume Technology	3	THEA 3700 Directing	3
THEA Performance Elective	3	THEA Performance Elective	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs.</b>
THEA 3610 Costume Design	3	THEA 3600 Scenic Design	3
THEA 4300 Professional Practices	1	THEA 4300 Professional Practices	1
THEA 4310 Principles of Theatre Management	3	THEA Performance Elective	3
THEA 4400 Literature & History of the Theatre I	3	Department-Approved Support Course	3
THEA 4600 Advanced Technical Theatre	3	General Education	6
Dept. Approved Support Course	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs.</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs.</b>
THEA 3630 Studio Theatre I	1	IGEN 3116, 3224, 3232, 4234, or 4244	3
THEA 4300 Professional Practices	1	THEA 3620 Lighting Design	3
THEA 4610 Advanced Stage Lighting & Sound	3	THEA 4420 Literature & History of the Theatre II	3
Department-Approved Support Course	3	THEA 4730 Studio Theatre II	1
General Education	3	THEA 4910 Senior Showcase	1
Free Choice Electives	6	Free Choice Electives	4
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

**Theatre Major (Design/Technology Option), B.F.A. Degree - 124 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.



## College of Health, Science, and Technology

Department of Biology and Earth Science

# EARTH SCIENCE

## BACHELOR OF SCIENCE IN EDUCATION DEGREE

A Bachelor of Science in Education degree with a major in Biology or Earth Science, provides unified science certification to teach any of the beginning sciences, and all levels of biology or earth science, grades 9-12. All teacher education programs are accredited by the National Council for Accreditation of Teacher Education. The curriculum offers the student the opportunity to develop a strong foundation in chemistry, physics and earth science.

### About the Faculty

Biology and Earth Science classes are taught by experienced faculty members who believe in individualized attention for students. Classroom learning is reinforced in most courses through practical laboratory experiences that include application of computer, multimedia technology and biotechnology. Recently, a new molecular biology research and teaching facility was constructed. Four new faculty members use molecular techniques in their courses and have developed new courses in biotechnology.

In addition to a wide range of academic and professional experiences, all tenure track members of the department's faculty have doctorates in their fields of expertise. Active research programs, many involving undergraduate students, and workshop and seminar participation keep faculty members abreast of developments in their fields.

### Career Opportunities

Graduates of this program will find potential employers very eager to recruit and retain them as teachers. In addition, museums, zoos and nature centers also hire educators, who have strong background in biology or earth

science to design exhibitions, lead nature hikes in wild areas and plan educational programs.

Students who successfully complete UCM's science programs have a wide variety of opportunities available to them. They can develop a program of study preparing them for careers in systematics, ecology, conservation, physiology, cell biology, genetics and geology. With the appropriate preparation, students may become biology or earth science teachers, conservation agents or medical technologists. In addition, they may become qualified for admittance to graduate programs in biology and geology, and the professional schools of medical, veterinary, dental and physical therapy occupations.

### Student Involvement

Students may participate in a wide variety of field-based research projects, including research on using GIS and remote sensing to create habitat suitability models for Missouri's threatened and endangered flora and fauna; bat habitat surveys in Missouri; endangered species surveys in Missouri; floral surveys of selected areas in Missouri. In addition, students may participate in organismal, molecular and cellular laboratory-based research projects involving both plants and animals, including molecular systematics and population genetics of plants; biological clock mechanisms; the physiological impact of environmental stressors on vertebrates, and the molecular regulation of reproduction in fishes.

Student organizations include Para-Medico for students interested in careers in allied health areas, the Pre-Vet Club for those pursuing careers in animal care, Beta Beta Beta, the

department's Biology honor society, National Science Teachers Association Student Chapter, for students interested in science education techniques, the Wildlife Society, for students interested in ecological concerns and wildlife conservation, American Fisheries Society, for students interested in aquatic sciences, and Geology Club, to provide a greater understanding of the science of geology. Many of the student organizations sponsor a series of speakers and Geology club sponsors a week-long field trip.

### Pertle Springs

In addition to the extensive laboratory facilities in the W.C. Morris Science Building, UCM owns Pertle Springs, a 300-acre park a mile from the main campus. A unique natural laboratory for research and field experiences, Pertle Springs also serves as a campus recreation area. UCM also maintains a small astronomical observatory at Pertle Springs featuring a computer-controlled telescope with imaging capabilities and specialized auxiliary equipment. Each year The Wildlife Society sponsors BioBlitz, an annual gathering at Pertle Springs that focuses on surveying natural areas, birds, fish, fungi, mammals, insects, reptiles, and amphibians.

### To Learn More

For more information, write to the Department of Biology and Earth Science, UCM, Warrensburg, MO 64093, or call 660-543-4933. For admission information, call toll free 877-SAY-UCMO (877-729-8266). The university's home page on the Web is [www.ucmo.edu](http://www.ucmo.edu). Biology and Earth Science Web pages may be accessed through UCM's site.

**Earth Science Major, B.S. in Ed. Degree (41-280)**

This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year -Spring Semester</b>	<b>Hrs</b>
<b><i>EASC 1004 Introduction to the Sciences: Geology</i></b>	4	EASC 2200 Historical Geology	4
BIOL 1112 Animal Biology	4	<b><i>General Education MATH</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
General Education	3	CTE 2000 Technology & Society	3
<b>Semester Total</b>	<b>14</b>	General Education	3
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
EASC 3320 Mineralogy	4	EASC 3112 Astronomy	3
EASC 3114 Meteorology	3	Major Elective**	3-4
CHEM 1131 General Chemistry I	5	EDFL 2100 Foundations of Education	2
<b><i>POLS 1510 American Government</i></b>	3	FLDX 2150 Introductory Field Experience	1
General Education	3	EDFL 2240 Educational Psychology	3
<b>Semester Total</b>	<b>18</b>	HIST 1350 or HIST 1351 History of the United States	3
		<b>Semester Total</b>	<b>15-16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
EASC 3010 Environmental Geology	3	BIOL 4102 Evolution	3
EASC 3115 Oceanography***	3	PSY 4230 Psychology of Adolescence	3
PHYS 1101 College Physics I or		EDFL 4210 Teaching Reading in Secondary	2
PHYS 1104 Introduction to the Sciences: Physics or		EDFL 4300 Educational Measurement & Evaluation	2
PHYS 2121 University Physics	4-5	General Education	3
EDSP 2100 Education of Exceptional Child or		Major Elective**	3
PSY 4200 Psychology of Exceptional Child	2	<b>Semester Total</b>	<b>16</b>
Major Elective**	3		
<b>Semester Total</b>	<b>15-16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
EASC 3501 Invertebrate Paleontology***	4	EASC 4080 Teaching Secondary Science	3
EASC 4050 Science Teaching Methods	3	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Management	3	ICAP 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	<b>Semester Total</b>	<b>12</b>
General Education	6		
<b>Semester Total</b>	<b>17</b>		

**Earth Science Major, B.S. in Ed. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- \*\*See the 2011 Undergraduate Catalog for the list of approved major electives. Students must take 9-10 hours of major electives to bring the total major hours to sixty.
- \*\*\*These courses are offered in alternate Fall semesters - if one is not available, take the other.
- A 15 hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the College-BASE for Teachers exam. These courses are indicated on this guide in bold italics. Take the College-BASE exam the semester following completion of the 15 hour set of General Education courses. Students must pass all five areas of the College-BASE for Teachers exam as a prerequisite for admission to the Teacher Education Program and prior to taking 4000-level Education courses.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before student teaching and enrollment in professional education classes. The application for student teaching is due approximately one year in advance.