



Harmon College of Business Administration
School of Accountancy

Accountancy

Bachelor of Science in Business Administration Degree

Accounting is one of the world's fastest growing professions. The School of Accountancy 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 School of Accountancy's 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, Microcomputer Applications in Accounting, Intermediate Financial Accounting I and II, 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
School of Accountancy
660-543-4631
Admissions
660-543-4290

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BTE 1210 Essentials of Managing Information* ENGL 1020 Composition I MATH 1111 College Algebra* PSY 1100 Gen. Psych. or SOC 1800 Gen. Soc. General Education Semester Total AE 1400 or BADM 1400 Freshman Seminar**	Hrs. 2 3 3 3 3 14 1	Freshman Year - Spring Semester COMM 1000 Public Speaking ECON 1010 Principles of Macroeconomics* ENGL 1030 Composition II General Education Semester Total	Hrs. 3 3 3 6 15
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Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting*# ECON 1011 Principles of Microeconomics* FIN 2801 Business Statistics I* General Education Semester Total	Hrs. 3 3 3 7 16	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting*# ACCT 2110 Microcomputer Applications# BLAW 2720 Legal Environment of Business* General Education Semester Total Note: Complete all B.S.B.A. admission requirements and apply for admission*	Hrs. 3 3 3 6 15
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Junior Year - Fall Semester ACCT 3111 Intermediate Financial Accounting I# ACCT 3120 Cost & Managerial Accounting# FIN 3801 Business Statistics II MGT 3315 Management of Organizations MKT 3405 Marketing Policy Free Choice Elective Semester Total	Hrs. 3 3 3 3 3 1 16	Junior Year - Spring Semester ACCT 3112 Intermediate Financial Accounting II# ACCT 3130 Introduction to Income Tax# FIN 3850 Principles of Finance MGT 3325 Business Communications Accounting or Business Elective*** Free Choice Elective Semester Total	Hrs. 3 3 3 3 3 1 16
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Senior Year - Fall Semester ACCT 3160 Accounting Information Systems# ACCT 4100 Advanced Accounting I MGT 3360 Production/Operations Management Accounting or Business Elective*** General Education Semester Total	Hrs. 3 3 3 3 3 15	Senior Year - Spring Semester ACCT 4105 Auditing BLAW 3721 Law of Business Transactions ICAP 4357 Organizational Policy and Strategy Free Choice Electives Semester Total	Hrs. 3 3 3 7 16
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Accountancy Major, B.S.B.A. Degree - 123 Hours

- *Accountancy majors must complete the eight preadmission courses with a 2.65 GPA and have a cumulative GPA of 2.65 on a minimum of 45 hours for admission to the B.S.B.A. in Accountancy program. The eight preadmission 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.
- #Grade of "C" or higher required for sophomore and junior level Accounting courses.
- 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 MAPP test 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 Science and Technology
Department of Mathematics and Computer Science

Actuarial Science and Mathematics

BACHELOR OF SCIENCE DEGREE

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

The University of Central Missouri is one of fewer than 60 schools nationally, and the only state-supported school in Missouri, to offer a Bachelor of Science degree in actuarial science and mathematics. In addition, Central Missouri is a testing site for the Society of Actuaries courses three through four.

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

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 statistical, mathematical, and actuarial software is 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, 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

An actuary must have sound knowledge of mathematics, especially mathematical probability and statistics, and should be familiar with economics, computer science, social science, law, and the business environment.

In addition, an actuary must be a good communicator to explain things to non-actuaries. The comprehensive understanding of both financial and technical intricacies makes actuaries the most influential of professions whose work affects virtually every industry in existence.

Most actuaries are employed by insurance companies. Others work with consulting firms, providing actuarial services to smaller insurance companies, banks, labor unions and a variety of business firms. Still others are employed by federal and state governments in regulating the insurance and pension industries and in providing actuarial guidance to social security systems.

The insurance industry is steadily expanding and the demand for actuaries continues to be great. Starting salaries for actuaries are very attractive and increase substantially as experience and more exam credits are gained.

Qualification as an Actuary

Recognition as an actuary is achieved by qualifying for membership in a professional actuarial organization. The Society of Actuaries (SOA), the Casualty Actuarial Society (CAS), and the American Society of Pension Actuaries (ASPA) are the most popular three organizations. Membership in all three organizations is achieved by examinations.

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.

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

University of Central Missouri • Four-Year Academic Guide

Actuarial Science and Mathematics Major, B.S. Degree (43-475)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>CS 1100 Computer Programming I ECON 1010 Principles of Macroeconomics ENGL 1020 Composition I MATH 1151 Calculus & Analytic Geometry I Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs.</p> <p>3 3 3 5 14 1</p>	<p>Freshman Year - Spring Semester</p> <p>CS 2800 Interactive System Design** ENGL 1030 Composition II MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics Semester Total</p>	<p>Hrs.</p> <p>3 3 5 3 14</p>
<p>Sophomore Year - Fall Semester</p> <p>ECON 3010 Intermediate Macroeconomics*** MATH 2153 Calculus & Analytic Geometry III MATH 3311 Introduction to Math Statistics*** General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 7 16</p>	<p>Sophomore Year - Spring Semester</p> <p>ECON 3030 Intermediate Microeconomics MATH 4312 Probability Models*** MATH 4501 Actuarial Exam Review Prob. Set I*** MATH 4510 Mathematics of Finance*** General Education Semester Totals</p>	<p>Hrs.</p> <p>3 3 1 3 3 16</p>
<p>Junior Year - Fall Semester</p> <p>FIN 4817 Managing Financial Derivatives*** MATH 3321 Applied Statistics*** MATH 3710 Linear Algebra MATH 4511 Act. Exam Review Prob. Set II*** General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 1 5-6 15-16</p>	<p>Junior Year - Spring Semester</p> <p>FIN 3861 Financial Management I FIN 4803 Principles of Insurance General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 9 15</p>
<p>Senior Year - Fall Semester</p> <p>MATH 4520 Life Contingencies*** Major Elective Free Choice Electives# Semester Total</p>	<p>Hrs.</p> <p>3 3 9 15</p>	<p>Senior Year - Spring Semester</p> <p>ICAP 4245 Actuarial Science Capstone Exp.*** MATH 4530 Actuarial Modeling*** Major Elective General Education (ICAP/IGEN) Free Choice Electives# Semester Total</p>	<p>Hrs.</p> <p>3 3 2-3 3 3-4 15</p>

Actuarial Science and 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 course is only offered during spring semester, every other year.
- ***This course is only offered during the semester indicated.
- #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 MAPP test 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 Science and Technology Department of Agriculture

Agriculture-Business

BACHELOR OF SCIENCE DEGREE

University of Central Missouri students who major in the Department of Agriculture's program in agriculture-business gain an understanding of the basic structure, conduct and performance of the agriculture industry. Courses include distribution and marketing of agricultural products, agriculture policy, international agriculture, and agricultural futures trading. These and other courses, which combine with the study of economic principles and the basic agricultural sciences, provide an interdisciplinary, in-depth approach and an excellent background for careers in agriculture businesses.

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 raising plants for a Horticulture Club sale, welding or repairing tractors, assisting in agronomic field test plot research 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. Department of Agriculture, Missouri Department of Agriculture agencies and other agriculture-oriented businesses.

Faculty and Facilities

Dedicated faculty and well-equipped facilities, including a modern computer laboratory, 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. In addition to typical classrooms, a greenhouse facility, and a joint program with Lincoln Electric, which offers state-of-the-art welding facilities in the Agriculture Mechanics Building, provide support for all phases of the instructional program. 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 that sponsors an annual 4-H and FFA Steer and Heifer Show. 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. The Agriculture Student Advisory Board, elected by the student body, meets regularly with the faculty.

Scholarships

In addition to more than \$4 million in merit-based scholarships and awards annually presented to Central Missouri students by the university, the Department of Agriculture 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 Department of Agriculture, 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 Department of Agriculture, Grinstead 126, UCM, Warrensburg, MO 64093; email the department at agriculture@UCMO.edu; visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

Agriculture-Business Major, B.S. Degree (43-277)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AGRI 1110 Introduction to Agriculture 1 AGRI 1300 Introductory Plant Science 1 AGRI 1420 Animal Husbandry 3 CHEM 1104 Intro. to the Sciences: Chem. (Lab) 4 COMM 1000 Public Speaking 3 ENGL 1020 Composition I 3 Semester Total 15	Hrs.	Freshman Year - Spring Semester AGRI 1600 Introductory Horticulture Science (Lab) 3 AGRI 2425 Livestock Evaluation (Lab) 3 ECON 1011 Principles of Microeconomics 3 ENGL 1030 Composition II 3 MATH 1111 College Algebra 3 Semester Total 15	Hrs.
Sophomore Year - Fall Semester AGRI 1200 Agriculture Mechanics (Lab) or AGRI 3200 Farm Power & Machinery 3 AGRI 2010 Computer Apps. for Agriculturalists 3 AGRI 2330 Introduction to Soil Science (Lab) 3 FIN 1820 Personal Finance 3 SPAN 1601, 1602, or 2601 Elem./Inter. Spanish 3 General Education 3 Semester Total 18	Hrs.	Sophomore Year - Spring Semester ACCT 2101 Principles of Financial Accounting or ACCT 2100 Survey of Accounting 3 AGRI 2130 Global Agriculture 3 AGRI 2315 Agronomy II: Forages or AGRI 1310 Agronomy I: Row Crops 2 ECON 1010 Principles of Macroeconomics 3 General Education 6 Semester Total 17	Hrs.
Junior Year - Fall Semester AGRI 3110 Agri-Business Management 3 AGRI 3140 Agricultural Analysis and Statistics 3 AGRI 3420 Animal Nutrition 3 ECON 3030 Intermediate Microeconomics 3 MKT 3430 Personal Sales 3 Semester Total 15	Hrs.	Junior Year - Spring Semester AGRI 2331 Soils 3 AGRI 4110 Agricultural Futures Trading 3 AGRI 4140 Agricultural Policy 3 General Education 5-6 Semester Total 14-15	Hrs.
Senior Year - Fall Semester AGRI 3120 Distrib. and Marketing Agri. Products AGRI 4340 Agri. Sprays and Chemicals (Lab) or AGRI 3610 Agricultural Pest Management 3 AGRI 4820 Agricultural Safety 3 BLAW 2720 Legal Environment of Business 3 General Education 3 Semester Total 15	Hrs.	Senior Year - Spring Semester AGRI 4120 International Agriculture 3 AGRI 4150 Natural Resources Economics 3 ICAP 4101 Agricultural Capstone Experience 3 General Education 3 Free Choice Electives 3 Semester Total 15	Hrs.

Agriculture-Business Major, B.S. Degree - 124 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 MAPP test 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

Agriculture Education

BACHELOR OF SCIENCE IN EDUCATION DEGREE

The Department of Career and Technology Education's cooperative agricultural education program with the Department of Agriculture is designed for students who are interested in careers in agricultural education. In addition to leading to certification to teach secondary agriculture education, the curriculum provides an excellent background in both agriculture and teaching methods.

Agricultural education students at UCM can expect more than just four years of classwork. The Department of Agriculture believes students should obtain the hands-on experience that employers expect and that high-tech agriculture careers demand. In addition to their student teaching experiences, students learn by doing through such opportunities as welding or repairing tractors, assisting in agronomic field test plot research and plotting cattle futures.

Employment Opportunities

UCM graduates fill agriculture teaching positions in high schools across Missouri and beyond. In addition, they find employment in 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 addition, the Department of Agriculture plays a leading role in the placement of its graduates by maintaining contact with Missouri schools, representatives of agri-business industries, the U.S. Department of Agriculture, Missouri Department of Agriculture agencies and other agriculture-oriented businesses.

Faculty and Facilities

Dedicated faculty members and well-equipped facilities, including a modern computer laboratory, offer students a quality learning experience. All department faculty members have extensive knowledge and experience 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. In addition to typical classrooms, a greenhouse facility and a 260-acre Prussing Demonstration Farm provide support for all phases of the instructional program. The Prussing farm, under development as a teaching unit to provide laboratory experience for agriculture students, 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 that sponsors an annual 4-H and FFA Steer and Heifer Show. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. UCM's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the same 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 national convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools. The Agriculture Student Advisory Board, elected by the student body, meets regularly with the faculty and provides important student input into the departmental decision-making process.

Scholarships

In addition to more than \$4 million in merit-based scholarships and awards presented annually to UCM students by the university, the Department of Agriculture offers a number of awards specifically for agriculture majors. These include the Ag Partner's, E.F. Low, Earle and Clara Low, Farm Bureau, Missouri Department of Agriculture, Clarence Pearce Agriculture Education, William Forrest Sterling, and Theiss Family Scholarships.

For More Information

To learn more, write to the Department of Career and Technology Education, Grinstead 235, UCM, Warrensburg, MO 64093; visit the department's web site at www.ucmo.edu/cte; or call 660-543-4452.

Students may also write to the Department of Agriculture, Grinstead 126, UCM, Warrensburg, MO 64093; email jscales@UCM.edu; visit the department's web site at www.ucmo.edu/agriculture; or call 660-543-4579.

University of Central Missouri • Four-Year Academic Guide

Agriculture Education Major, B.S. in Ed. Degree (41-328)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>AGRI 1100 Introduction to Agriculture 1</p> <p>AGRI 1200 Agriculture Mechanics (Lab) 3</p> <p>AGRI 1300 Introduction to Plant Science 1</p> <p>AGRI 1420 Animal Husbandry 3</p> <p>CHEM 1104 Intro. to the Sciences: Chemistry 4</p> <p>ENGL 1020 Composition I 3</p> <p>Semester Total 15</p>	<p>Hrs.</p> <p>1</p> <p>3</p> <p>1</p> <p>3</p> <p>4</p> <p>3</p> <p>15</p>	<p>Freshman Year - Spring Semester</p> <p>AGRI 1310 Agronomy I: Row Crops (Lab) 2</p> <p>BIOL 1004 Intro. to the Sciences: Ecology 4</p> <p>ENGL 1030 Composition II 3</p> <p>HIST 1350 or HIST 1351 U.S. History 3</p> <p>MATH 1111 College Algebra 3</p> <p>Semester Total 15</p>	<p>Hrs.</p> <p>2</p> <p>4</p> <p>3</p> <p>3</p> <p>3</p> <p>15</p>
<p>Sophomore Year - Fall Semester</p> <p>AGRI 2010 Computer Appl. for Agriculturalists 3</p> <p>AGRI 2330 Introduction to Soil Science (Lab) 3</p> <p>ECON 1010 Principles of Macroeconomics 3</p> <p>EDFL 2100 Foundations of Education 2</p> <p>FLDX 2150 Introductory Field Experience 1</p> <p>EDFL 2240 Educational Psychology 3</p> <p>General Education Technology 2-3</p> <p>Semester Total 17-18</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>2</p> <p>1</p> <p>3</p> <p>2-3</p> <p>17-18</p>	<p>Sophomore Year - Spring Semester</p> <p>AGRI 1600 Introductory Horticulture Science (Lab) 3</p> <p>AGRI 2130 Global Agriculture 3</p> <p>ECON 1011 Principles of Microeconomics 3</p> <p>General Education 6</p> <p>Semester Total 15</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>6</p> <p>15</p>
<p>Junior Year - Fall Semester</p> <p>AGRI 2315 Agronomy II: Forages 2</p> <p>AGRI 3110 Agri-Business Management 3</p> <p>AGRI 3120 Distribution & Mkt. Agriculture Products 3</p> <p>AGRI 4820 Agricultural Safety 3</p> <p>PSY 4230 Psychology of Adolescence 3</p> <p>General Education 3</p> <p>Semester Total 17</p>	<p>Hrs.</p> <p>2</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>17</p>	<p>Junior Year - Spring Semester</p> <p>AGRI 3200 Farm Power & Machinery (Lab) 3</p> <p>AGRI 4435 Pork or AGRI 4430 Beef 3</p> <p>EDFL 4210 Teaching of Reading Secondary School 2</p> <p>EDSP 2100 Education of the Exceptional Child 2</p> <p>POLS 1510 American Government 3</p> <p>General Education 3</p> <p>Semester Total 16</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>2</p> <p>2</p> <p>3</p> <p>3</p> <p>16</p>
<p>Senior Year - Fall Semester</p> <p>AGRI 3420 Animal Nutrition 3</p> <p>AGRI 4930 Methods of Teaching Vocational Agri. 2</p> <p>EDFL 3500 Secondary Teaching & Behavior Mgmt. 3</p> <p>FLDX 3550 Practicum in Secondary Instruction 1</p> <p>EDFL 4300 Educational Measurement & Evaluation 2</p> <p>ICAP 4101 Agriculture Capstone Experience 3</p> <p>Semester Total 14</p>	<p>Hrs.</p> <p>3</p> <p>2</p> <p>3</p> <p>1</p> <p>2</p> <p>3</p> <p>14</p>	<p>Senior Year - Spring Semester</p> <p>AGRI 4900 Plan. & Cond. Programs in Agri. Educ. 3</p> <p>AGRI 4910 Agri. Occupations Expr. Programs** 2</p> <p>AGRI 4920 Agri. Mechanics in Agri. Education** 2</p> <p>AGRI 4940 Secondary Field Experience II** 1</p> <p>FLDX 4595 Student Teaching Secondary I 5</p> <p>ICAP 4468 Student Teaching Secondary II 4</p> <p>Semester Total 17</p>	<p>Hrs.</p> <p>3</p> <p>2</p> <p>2</p> <p>1</p> <p>5</p> <p>4</p> <p>17</p>

Agriculture Education Major, B.S. in Ed. Degree - 126 hours

- **AGRI 4910, 4920, 4930, and 4940 are only offered in spring semesters.
- Courses designated below are highly recommended electives. Taking these courses will increase the total hours in the program: AGRI 4200 Adv. Ag. Mechanics (Lab); AGRI 2425 Livestock Evaluation (Lab) **or** AGRI 3640 Horticultural Propagation Material (Lab); AGRI 4415 Reproduction of Farm Animals (Lab).
- 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.
- 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 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.



College of Science and Technology
Department of Agriculture

Agricultural Technology: Agricultural Mechanization

BACHELOR OF SCIENCE DEGREE

The Department of Agriculture's program in agricultural technology includes specializations in animal science, as well as agronomy, horticulture or agriculture mechanization. The interdisciplinary curriculum provides students with a background in all phases of agriculture, and specialized courses allow students to expand their knowledge in their degree 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 welding, repairing tractors, assisting in agronomic field test plot research and plotting cattle futures.

Employment Opportunities

Each specialization 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. Department of Agriculture, Missouri Department of Agriculture agencies and other agriculture-oriented businesses.

Faculty and Facilities

Dedicated faculty and well-equipped facilities, including a modern computer laboratory, 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. In addition to typical classrooms, a greenhouse facility, and a joint program with Lincoln Electric, which offers state-of-the-art welding facilities in the Agriculture Mechanics Building, provide support for all phases of the instructional program. 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

Central Missouri's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization that sponsors an annual 4-H and FFA Steer and Heifer Show. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. UCM's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the same 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 national convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools. The Agriculture Student Advisory Board, elected by the student body, meets regularly with the faculty and provides important student input into the departmental decision-making process.

Scholarships

In addition to more than \$4 million in merit-based scholarships and awards presented annually to UCM students by the university, the Department of Agriculture 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 Department of Agriculture, Clarence Pearce Agriculture Education, William Forrest Sterling, and Theiss Family Scholarships.

For More Information

To learn more write to the Department of Agriculture, UCM, Grinstead 126, Warrensburg, MO 64093; email the department at agriculture@UCMO.edu; visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

Agricultural Technology Major - Agricultural Mechanization Area, B.S. Degree (43-279)

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<p>Freshman Year - Fall Semester</p> <p>AGRI 1100 Introduction to Agriculture 1 AGRI 1200 Agriculture Mechanics (Lab) 3 AGRI 1300 Introductory Plant Science 1 CHEM 1104 Intro. to the Sciences: Chemistry 4 COMM 1000 Public Speaking 3 ENGL 1020 Composition I 3 Semester Total 15</p>	Hrs.	<p>Freshman Year - Spring Semester</p> <p>AGRI 1600 Introductory Horticulture Sci. (Lab) 3 or AGRI 1610 Estab. & Care of Grnhs. Plants 3 ECON 1011 Principles of Microeconomics 3 ENGL 1030 Composition II 3 MATH 1111 College Algebra 3 General Education 3 Semester Total 15</p>	Hrs.
<p>Sophomore Year - Fall Semester</p> <p>AGRI 1420 Animal Husbandry 3 AGRI 2010 Comp. Applications for Agriculturalists 3 AGRI 2130 Global Agriculture 3 AGRI 2330 Introduction to Soil Science (Lab) 3 ET 1010 Applied Electricity 3 Semester Total 15</p>	Hrs.	<p>Sophomore Year - Spring Semester</p> <p>AGRI 1310 Agronomy I: Row Crops 2 or AGRI 2315 Agronomy II: Forages 3 AGRI 2425 Livestock Evaluation (Lab) 1 GRAP 1105 Basic AutoCAD 2 GRAP 1110 Fundamentals of Drafting 8-9 General Education 16-17 Semester Total 16-17</p>	Hrs.
<p>Junior Year - Fall Semester</p> <p>AGRI 3110 Agri-Business Management 3 or AGRI 3120 Dist. & Mktg. Agri. Products 3 AGRI 3140 Agricultural Analysis & Statistics 3 AGRI 3610 Agriculture Pest Management (Lab) 3 SPAN 1601 Elementary Spanish I (or higher level) 3 General Education 3 Semester Total 15</p>	Hrs.	<p>Junior Year - Spring Semester</p> <p>AGRI 3200 Farm Power & Machinery 3 AGRI 4200 Advanced Agriculture Mechanics 3 AGRI 4300 Soil Fertility & Fertilizers 3 GRAP 2170 Intro. to Computer-Aided Drafting 3 General Education 3 Semester Total 15</p>	Hrs.
<p>Senior Year - Fall Semester</p> <p>AGRI 4340 Agricultural Sprays & Chemicals (Lab) 3 AGRI 4820 Agricultural Safety 3 PR&T 3110 Automotive Engine Overhaul 3 or PR&T 3140 Transmissions & Drive Lines 3 PR&T 4032 Hydraulics & Pneumatics 5-6 Free Choice Electives 17-18 Semester Total 17-18</p>	Hrs.	<p>Senior Year - Spring Semester</p> <p>AGRI 3810 Internship in Agriculture 3 ICAP 4101 Agricultural Capstone Experience 3 PR&T 3150 Diesel Technology (Lab) 6 General Education 15 Semester Total 15</p>	Hrs.

Agricultural Technology Major - Agricultural Mechanization Area, B.S. Degree - 124 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 MAPP test 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 Science and Technology
Department of Agriculture

Agricultural Technology: Agronomy

BACHELOR OF SCIENCE DEGREE

The Department of Agriculture's program in agricultural technology includes specializations in animal science, as well as agronomy, horticulture or agriculture mechanization. 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 raising plants for a Horticulture Club sale, working with HeatWatch cattle estrus and ultra-sound pregnancy monitoring systems, welding or repairing tractors, assisting in agronomic field test plot research and plotting cattle futures.

Employment Opportunities

Each specialization 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. Department of Agriculture, Missouri Department of Agriculture agencies and other agriculture-oriented businesses.

Faculty and Facilities

Dedicated faculty and well-equipped facilities, including a modern computer laboratory, 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. In addition to typical classrooms, a greenhouse facility, and a joint program with Lincoln Electric which offers state of the art welding facilities in the Agriculture Mechanics Building, provide support for all phases of the instructional program. 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

Central Missouri's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization that sponsors an annual 4-H and FFA Steer and Heifer Show. Horticulture Club members visit horticulture-related businesses and sites and participate in regular plant sales that benefit members by raising funds for scholarships. UCM's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the same 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 national convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools. The Agriculture Student Advisory Board, elected by the student body, meets regularly with the faculty and provides important student input into the departmental decision-making process.

Scholarships

In addition to more than \$4 million in merit-based scholarships and awards presented annually to UCM students by the university, the Department of Agriculture offers more than \$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 Department of Agriculture, Clarence Pearce Agriculture Education, William Forrest Sterling, and Theiss Family Scholarships.

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University of Central Missouri • Four-Year Academic Guide

Agricultural Technology Major - Agronomic Technology Area, B.S. Degree (43-279)

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Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introductory Horticulture Sci. (Lab)	
AGRI 1300 Introductory Plant Science	1	or AGRI 1610 Estab. & Care of Grnhs. Plants BIOL 11113	
AGRI 1310 Agronomy I: Row Crops		Plant Biology	4
or AGRI 2315 Agronomy II: Forages	2	ENGL 1030 Composition II	3
to the Sciences: Chemistry	4	MATH 1111 College Algebra	3
COMM 1000 Public Speaking	3	General Education	3
ENGL 1020 Composition I	3	Semester Total	16
Semester Total	14		

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
AGRI 1200 Agriculture Mechanics (Lab)	3	AGRI 2010 Computer Apps. for Agriculturalists	3
AGRI 1420 Animal Husbandry	3	AGRI 2130 Global Agriculture	3
AGRI 2330 Introduction to Soil Science (Lab)	3	AGRI 2425 Livestock Evaluation (Lab)	3
EASC 1004 Introduction to Geology (Lab)	4	SPAN 1601 Elementary Spanish I (or higher level)	3
ECON 1011 Principles of Microeconomics	3	General Education	3
Semester Total	16	Semester Total	15

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
AGRI 3110 Agri-Business Management		AGRI 2331 Soils	3
or AGRI 3120 Distribution & Mktg. Agri. Prod.	3	AGRI 3210 Soil & Water Management	3
AGRI 3140 Agriculture Analysis & Statistics	3	AGRI 4300 Soil Fertility & Fertilizers	3
AGRI 3610 Agriculture Pest Management (Lab)	3	General Education	6
AGRI 4610 Turfgrasses	3	Semester Total	15
AGRI 4820 Agricultural Safety	3		
Semester Total	15		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
AGRI 3810 Internship in Agriculture	3	AGRI 3320 Field Crop Management	3
AGRI 4310 Plant Improvement (Lab)	3	AGRI 4410 General Veterinary Science	3
AGRI 4320 Agricultural Plant Diseases (Lab)	3	ICAP 4101 Agricultural Capstone Experience	3
AGRI 4340 Agricultural Sprays & Chemicals (Lab)	3	General Education	5-6
General Education	3	Free Choice Electives	1-2
Free Choice Electives	2	Semester Total	16
Semester Total	17		

Agricultural Technology Major - Agronomic Technology Area, B.S. Degree - 124 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.
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College of Science and Technology
Department of Agriculture

Agricultural Technology: Animal Technology

BACHELOR OF SCIENCE DEGREE

The Department of Agriculture's program in agricultural technology includes specializations in animal technology, as well as agronomy, horticulture or agriculture mechanization. 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 Central Missouri 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 practicing cattle artificial insemination and palpation techniques. These experiences are enhanced by field trips to livestock expositions, professional animal science meetings, and tours of livestock businesses production operations, and research labs to learn about the latest research and production techniques.

Employment Opportunities

Each specialization 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. Department of Agriculture, Missouri Department of Agriculture agencies and other agriculture-oriented businesses.

Faculty and Facilities

Dedicated faculty and well-equipped facilities, including a modern computer laboratory, 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. In addition to typical classrooms, a greenhouse facility, and a joint program with Lincoln Electric, which offers state-of-the-art welding facilities in the Agriculture Mechanics Building, provide support for all phases of the instructional program. 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

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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 national convention. Students participating in the Agriculture Ambassadors program volunteer to represent the department at functions on campus and at area high schools. The Agriculture Student Advisory Board, elected by the student body, meets regularly with the faculty and provides important student input into the departmental decision-making process.

Scholarships

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University of Central Missouri • Four-Year Academic Guide

Agricultural Technology Major - Animal Technology Area, B.S. Degree (43-279)

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<p>Freshman Year - Fall Semester</p> <p>AGRI 1100 Introduction to Agriculture 1</p> <p>AGRI 1300 Introductory Plant Science 1</p> <p>AGRI 1420 Animal Husbandry 3</p> <p>CHEM 1104 Intro. to the Sciences: Chemistry 4</p> <p>COMM 1000 Public Speaking 3</p> <p>ENGL 1020 Composition I 3</p> <p>Semester Total 15</p>	Hrs.	<p>Freshman Year - Spring Semester</p> <p>AGRI 1600 Introductory Horticulture Sci. (Lab) 3</p> <p style="padding-left: 20px;">or AGRI 1610 Estab. & Care of Grnhs. Plants</p> <p>AGRI 2425 Livestock Evaluation (Lab) 3</p> <p>ECON 1011 Principles of Microeconomics 3</p> <p>ENGL 1030 Composition II 3</p> <p>MATH 1111 College Algebra 3</p> <p>Semester Total 15</p>	Hrs.
<p>Sophomore Year - Fall Semester</p> <p>AGRI 1200 Agriculture Mechanics (Lab) 3</p> <p>AGRI 2130 Global Agriculture 3</p> <p>AGRI 2330 Introduction to Soil Science (Lab) 3</p> <p>AGRI 3410 Animal Breeding 3</p> <p>General Education 3</p> <p>Semester Total 15</p>	Hrs.	<p>Sophomore Year - Spring Semester</p> <p>AGRI 1310 Agronomy I: Row Crops 3</p> <p style="padding-left: 20px;">or AGRI 2315 Agronomy II: Forages</p> <p>AGRI 2010 Computer Apps. for Agriculturalists 2</p> <p>SPAN 1601 Elementary Spanish I (or higher level) 3</p> <p>General Education 8-9</p> <p>Semester Total 16-17</p>	Hrs.
<p>Junior Year - Fall Semester</p> <p>AGRI 3110 Agri-Business Management 3</p> <p style="padding-left: 20px;">or AGRI 3120 Distribution & Mktg. Agri. Prod.</p> <p>AGRI 3140 Agriculture Analysis & Statistics 3</p> <p>AGRI 3415 Meat Science 3</p> <p>AGRI 4415 Reproduction of Farm Animals (Lab) 3</p> <p>General Education 3</p> <p>Semester Total 15</p>	Hrs.	<p>Junior Year - Spring Semester</p> <p>AGRI 4110 Agricultural Futures Trading 3</p> <p>AGRI 4300 Soil Fertility & Fertilizers 3</p> <p>AGRI 4435 Animal Science: Pork 3</p> <p>General Education 6</p> <p>Semester Total 15</p>	Hrs.
<p>Senior Year - Fall Semester</p> <p>AGRI 3420 Animal Nutrition 3</p> <p>AGRI 3610 Agricultural Pest Management (Lab) 3</p> <p>AGRI 3810 Internship in Agriculture 3</p> <p>AGRI 4820 Agricultural Safety 3</p> <p>General Education 3</p> <p>Semester Total 15</p>	Hrs.	<p>Senior Year - Spring Semester</p> <p>AGRI 4000 Special Projects - Equine Science 3</p> <p>AGRI 4310 Plant Improvement (Lab) 3</p> <p>AGRI 4410 General Veterinary Science 3</p> <p>AGRI 4430 Animal Science - Beef (Lab) 3</p> <p>ICAP 4101 Agricultural Capstone Experience 3</p> <p>Free Choice Electives 2-3</p> <p>Semester Total 17-18</p>	Hrs.

Agricultural Technology Major - Animal Technology Area, B.S. Degree - 124 hours

- Your four-year plan will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
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College of Science and Technology Department of Agriculture

Agricultural Technology: Horticulture

BACHELOR OF SCIENCE DEGREE

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Employment Opportunities

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Faculty and Facilities

Dedicated faculty and well-equipped facilities, including a modern computer laboratory, 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. In addition to typical classrooms, a greenhouse facility and the 260-acre Prussing Farm provide support for all phases of the instructional program. The Prussing Farm, under development as a teaching unit to provide laboratory experience for agriculture students, 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

Central Missouri's agriculture students participate in a number of departmentally sponsored organizations. The Agriculture Club is a social organization that sponsors an annual 4-H and FFA Steer and Heifer Show. The Horticulture Club provides students opportunities to grow plants for sale, participate in service projects, and visit gardens and greenhouses throughout the state. UCM's Collegiate Farm Bureau provides an opportunity to interact with local farmers and to participate in agriculture activities at the same 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. The Agriculture Student Advisory Board, elected by the student body, meets regularly with the faculty.

Scholarships

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University of Central Missouri • Four-Year Academic Guide

Agricultural Technology - Horticultural Technology Major, B.S. Degree (43-279)

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Freshman Year - Fall Semester		Hrs.	Freshman Year - Spring Semester		Hrs.
AGRI 1100	Introduction to Agriculture	1	AGRI 2425	Livestock Evaluation (Lab)	3
AGRI 1300	Introductory Plant Science	1	ECON 1011	Principles of Microeconomics	3
AGRI 1420	Animal Husbandry	3	ENGL 1030	Composition II	3
AGRI 1600	Introductory Horticulture Sci. (Lab)		MATH 1111	College Algebra	3
	or AGRI 1610 Estab. & Care of Grnhs. Plants CHEM	3		General Education	3
1104	Intro. to the Sciences: Chemistry	4		Semester Total	15
	ENGL 1020 Composition I	3			
	Semester Total	15			

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
AGRI 1200	Agriculture Mechanics (Lab)	3	AGRI 1310	Agronomy I: Row Crops	
AGRI 2010	Computer Apps. for Agriculturalists	3		or AGRI 2315 Agronomy II: Forages	2
AGRI 2330	Introduction to Soil Science (Lab)	3	AGRI 2130	Global Agriculture	3
BIOL 1111	Biology I (General Botany) (Lab)	4	COMM 1000	Public Speaking	3
	General Education	3	SPAN 1601	Elementary Spanish I (or higher level)	3
	Semester Total	16		General Education	3
				Free Choice Elective	1
				Semester Total	15

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
AGRI 3140	Agriculture Analysis & Statistics	3	AGRI 3640	Horticultural Propagation Mat. (Lab)	3
AGRI 4000	Special Project: Commercial Greenhouse & Nursery Management	2	AGRI 4300	Soil Fertility & Fertilizers	3
AGRI 4310	Plant Improvement	3	AGRI 4605	Horticultural Plants II: Herbaceous	3
AGRI 4600	Horticulture Plants I Woody (Lab)	3		General Education	3
	General Education	3		Free Choice Elective	3
	Free Choice Elective	1		Semester Total	15
	Semester Total	15			

Between Junior and Senior Year - Summer		Hrs.
AGRI 3810	Internship in Agriculture	3
	Semester Total	3

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
AGRI 3110	Agri-Business Management		AGRI 3620	Residential Landscape Design (Lab)	3
	or AGRI 3120 Distribution & Mktg. Agri. Prod.	3	AGRI 4410	General Veterinary Science	3
AGRI 3610	Agricultural Pest Management (Lab)	3	ICAP 4101	Agricultural Capstone Experience	3
AGRI 4320	Agricultural Plant Diseases (Lab)	3		General Education	5-6
AGRI 4610	Turfgrasses (Lab)	3		Semester Total	14-15
AGRI 4820	Agricultural Safety	3			
	Semester Total	15			

Agricultural Technology - Horticultural Technology Major, B.S. Degree - 124 hours

- Your four-year plan will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
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College of Science and Technology
Department of Aviation

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. For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Airport Management Major, B.S. Degree (43-552)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>AVIA 1020 Aeronautics ENGL 1020 Composition I MATH 1111 College Algebra General Education Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs.</p> <p>2 3 3 6 14 1</p>	<p>Freshman Year - Spring Semester</p> <p>ENGL 1030 Composition II GRAP 1105 Basic AutoCAD GRAP 1110 Fundamentals of Drafting PHYS 1104 Introduction to the Sciences: Physics General Education Semester Total</p>	<p>Hrs.</p> <p>3 1 2 4 6 16</p>
<p>Sophomore Year - Fall Semester</p> <p>ACCT 2100 Survey of Accounting BLAW 2720 Legal Environment of Business MATH 1131 Applied Calculus PR&T 3010 Transportation Systems General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>	<p>Sophomore Year - Spring Semester</p> <p>AVIA 1320 Private Flight A COMM 2620 Public Relations CTE 3060 Technical Writing FIN 2801 Business Statistics I LIS 1600 University Library & Research Skills or BTE 1210 Essentials of Managing Information General Education Semester Total</p>	<p>Hrs.</p> <p>1 3 3 3 2 3 15</p>
<p>Junior Year - Fall Semester</p> <p>AVIA 4040 Aviation Management ECON 1010 Principles of Macroeconomics GRAP 2170 Intro. to Computer-Aided Drafting MKT 3400 Principles of Marketing General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 2 3 3 14</p>	<p>Junior Year - Spring Semester</p> <p>AVIA 4010 Aerodynamics FIN 3850 Principles of Finance MGT 3310 Principles of Management or INDM 4210 Industrial Management General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 6 15</p>
<p>Summer – Between Junior/Senior Year</p> <p>SOT 3022 Internship Semester Total</p>	<p>Hrs.</p> <p>3 3</p>		
<p>Senior Year – Fall Semester</p> <p>AVIA 4310 Air Traffic Control AVIA 4500 Aviation Safety GEOG 4265 Urban Geography HRM 3920 Human Resource Management SAFE 3000 Principles of Accident Causation Semester Total</p>	<p>Hrs.</p> <p>2 3 3 3 3 14</p>	<p>Senior Year - Spring Semester</p> <p>AVIA 4045 Airport Management AVIA 4090 Aviation Law AVIA 4330 Sport Aviation AVIA 4420 Air Transportation ICAP 4113 Air Operations Management Semester Total</p>	<p>Hrs.</p> <p>3 3 2 3 3 14</p>

Airport Management Major, 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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 and Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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	<i>ENGL 1030 Composition II</i>	3
<i>ENGL 1020 Composition I</i>	3	<i>HIST 1350 or 1351 US History</i>	3
General Education	3	<i>General Education MATH</i>	3
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 1815 Art History Survey I (fall) or ART 1835 Sur. of Non-West. Art Hist. (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 Introduction to Printmaking	3
FLDX 2150 Introductory Field Experience	1	<i>General Education Science w/lab**</i>	4
EDFL 2240 Educational Psychology	3	General Education	5
<i>POLS 1510 American Government</i>	3	Semester Total	18
General Education	3		
Semester Total	18		

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
ART 2511 Painting I	3	ART 3209 Figure Construction	3
ART 3314 Fibers	3	ART 3915 Methods of Teaching Art I: Elementary ART	3
PSY 4200 Psychology of the Exceptional Child or EDSP 2100 Education of the Exceptional Child	2	4850 20th Century Art & Architec. (fall) or ART 4860 Contemp. Art & Design (spring)	3
General Education	9	EDFL 4210 Teaching Reading in Secondary	2
Semester Total	17	PSY 4230 Psychology of Adolescence	3
		Upper Level Studio Concentration	3
		Semester Total	17

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
ART 3920 Methods of Teaching Art II: Secondary	3	ART 4920 Methods of Teaching Art III: Seminar	2
EDFL 3500 Sec. Teaching & Behavior Mgmt.	3	for Student Teaching	1
FLDX 3550 Practicum in Sec. Institution	1	ART 4930 K-12 Field Experience in Art	5
EDFL 4300 Ed. Measures & Evaluation	2	FLDX 4495 Student Teaching Elementary I	4
ICAP 4221 Artists in Contemporary Society	3	ICAP 4468 Student Teaching Secondary II	12
Upper Level Studio Concentration	3	Semester Total	12
Semester Total	15		

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.
- 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 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.



College of Health and Human Services
Department of Health and Human Performance

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 compete 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 Health and Human Performance'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 Health and Human Performance, Humphreys 216, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's home page at www.ucmo.edu/hhp/.

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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 Resp. to Emer. for the Prof. Rescuer	3	BIOL 2401 Anatomy & Physiology I	4
AT 2600 Medical Terminology	1	ENGL 1030 Composition II	3
CHEM 1104 Intro. to the Sciences: Chemistry	4	MATH 1111 College Algebra	3
ENGL 1020 Composition I	3	PE 2800 Human Anatomy	3
Semester Total	14	Semester Total	16
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
AT 2610 Orthopedic Assessment: Lower Extremity	2	AT 2620 Ortho. Assessment: Upper Extremity	2
AT 2611 Ortho. Assessment: Lower Ext. Lab III BIOL 2402 Anatomy & Physiology II	1	AT 2621 Ortho. Assessment: Upper Ext. Lab IV	1
PE 2320 Analysis & Teaching of Weight Training	4	AT 2630 Therapeutic Modalities	2
PE 2850 Foundations of Exercise Physiology	1	AT 2631 Therapeutic Modalities Lab	1
General Education	3	HED 4300 Nutrition & Human Performance	2
	3	PE 3800 Kinesiology	3
Semester Total	14	PSY 1100 General Psychology	3
		Semester Total	14

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
AT 3620 Clinical Athletic Training Lab V	2	AT 3640 Clinical Athletic Training Lab VI	2
AT 3630 Therapeutic Rehabilitation	2	AT 4630 Org. & 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 Fitness/Wellness	2
HED 4370 Human Diseases	3	General Education	6
PE 1206 Lifetime Fitness	3	Semester Total	16
General Education	2-3		
Semester Total	15-16		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
AT 4610 Clinical Athletic Training Lab VII	2	AT 4620 Clinical Athletic Training Lab VIII	2
PE 4830 Psychological Aspects of PE	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 Fit/Wellness	3
Semester Total	16	Free Choice Electives	5
		Semester Total	15

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 MAPP test 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.



UNIVERSITY OF
CENTRAL
MISSOURI

— Est. 1871 —

College of 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 National Association of Industrial Technology (NAIT).

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 National Association of Industrial Technology (NAIT) 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, 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.

University of Central Missouri • Four-Year Academic Guide

Automotive Technology Management Major (Auto. Tech. Option), B.S. Degree (43-838)

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<p>Freshman Year - Fall Semester</p> <p>BTE 1210 Essentials of Managing Information 2 ENGL 1020 Composition I 3 ET 1026 DC Circuit Analysis* 4 MATH 1111 College Algebra 3 PR&T 1010 Power Mechanics* 3 Semester Total 15</p>	Hrs.	<p>Freshman Year - Spring Semester</p> <p>ECON 1010 Principles of Macroeconomics 3 ENGL 1030 Composition II 3 ENGT 2530 Machine Tool Technology 3 GRAP 1110 Fundamentals of Drafting 2 GRAP 1105 Basic AutoCAD 1 MATH 1131 Applied Calculus or TECH 1042 Technical Mathematics II 3 Semester Total 15</p>	Hrs.
<p>Sophomore Year - Fall Semester</p> <p>ACCT 2100 Survey of Accounting 3 COMM 1000 Public Speaking 3 PHYS 1104 Introduction to the Sciences: Physics 4 PR&T 2110 Engine Theory & Maintenance* 4 PR&T 2130 Automotive Electrical Systems* 4 Semester Total 18</p>	Hrs.	<p>Sophomore Year - Spring Semester</p> <p>CHEM 1103 Intro. to the Sciences: Chemistry 3 PR&T 2132 Fuel Systems & Emission Controls* 4 PSY 1100 General Psychology 3 General Education 6 Semester Total 16</p>	Hrs.
<p>Junior Year - Fall Semester</p> <p>INDM 4210 Industrial Management or MGT 3315 Management of Organizations** 3 PR&T 3120 Steering and Suspension Systems* 4 PR&T 3124 Automotive Braking Systems* 4 General Education 3 Semester Total 14</p>	Hrs.	<p>Junior Year - Spring Semester</p> <p>BLAW 2720 Legal Environment of Business 3 CTE 3060 Technical Writing 3 PR&T 3130 Computerized Engine Diagnostics* 4 PR&T 3150 Diesel Technology* 3 General Education 3 Semester Total 16</p>	Hrs.
<p>Summer - Between Junior & Senior Year</p> <p>SOT 3022 Internship in Technology*** 5 Semester Total 5</p>	Hrs.		
<p>Senior Year - Fall Semester</p> <p>PR&T 3134 Advanced Powerplant Systems* 4 PR&T 4032 Hydraulics & Pneumatics 3 MKT 3400 Principles of Marketing or HRM 3920 Human Resource Management** 3 General Education 6 Semester Total 16</p>	Hrs.	<p>Senior Year - Spring Semester</p> <p>PR&T 2150 Mobile HVAC* 3 PR&T 3140 Transmissions & Drivelines* 4 ICAP 4112 Automotive Systems for Cont. Society* 3 Free Choice Elective 3 Semester Total 13</p>	Hrs.

Automotive Technology Management Major, B.S. Degree Automotive Technology Option - 128 hrs

- **This class is only offered during the semester indicated.*
- ***If students wish to take HRM 3920 rather than MKT 3400, they must take MGT 3315 rather than INDM 4210.*
- ****SOT 3022 Internship (5 hours) should be done during the summer between junior/senior year.*
- *To satisfy the General Education Assessment Policy students must take the MAPP test 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.*



UNIVERSITY OF
CENTRAL
MISSOURI

— Est. 1871 —

College of Science and Technology
School of Technology

Automotive Technology Management

AREA 2: DESIGN TECHNOLOGY, BACHELOR OF SCIENCE DEGREE

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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 National Association of Industrial Technology (NAIT).

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

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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 National Association of Industrial Technology (NAIT) 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, 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.

University of Central Missouri • Four-Year Academic Guide

Automotive Technology Management Major (Design Tech. Option), B.S. Degree (43-838)

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<p>Freshman Year - Fall Semester</p> <p>BTE 1210 Essentials of Managing Information ENGL 1020 Composition I ET 1026 DC Circuit Analysis* MATH 1111 College Algebra PR&T 1010 Power Mechanics*</p> <p>Semester Total</p>	<p>Hrs.</p> <p>2 3 4 3 3 15</p>	<p>Freshman Year - Spring Semester</p> <p>GRAP 1105 Basic AutoCAD GRAP 1110 Fundamentals of Drafting ECON 1010 Principles of Macroeconomics ENGL 1030 Composition II ENGT 2530 Machine Tool Technology MATH 1131 Applied Calculus or TECH 1042 Technical Mathematics II</p> <p>Semester Total</p>	<p>Hrs.</p> <p>1 2 3 3 3 3 15</p>
<p>Sophomore Year - Fall Semester</p> <p>ACCT 2100 Survey of Accounting COMM 1000 Public Speaking PHYS 1104: Introduction to the Sciences: Physics PR&T 2110 Engine Theory & Maintenance* PR&T 2130 Automotive Electrical Systems*</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 4 4 4 18</p>	<p>Sophomore Year - Spring Semester</p> <p>PR&T 2132 Fuel Systems & Emission Controls* PSY 1100 General Psychology General Education</p> <p>Semester Total</p>	<p>Hrs.</p> <p>4 3 9 16</p>
<p>Junior Year - Fall Semester</p> <p>GRAP 2170 Intro. to Computer-Aided Drafting PR&T 3120 Steering & Suspension Systems* PR&T 3124 Automotive Braking Systems* General Education</p> <p>Semester Total</p>	<p>Hrs.</p> <p>2 4 4 6 16</p>	<p>Junior Year - Spring Semester</p> <p>BLAW 2720 Legal Environment of Business CHEM 1103 Intro. to the Sciences: Chemistry CTE 3060 Technical Writing PR&T 3130 Computerized Engine Diagnostics* PR&T 3150 Diesel Technology*</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 3 4 3 16</p>
<p>Summer – Between Junior & Senior Year</p> <p>SOT 3022 Internship in Technology**</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3</p>		
<p>Senior Year - Fall Semester</p> <p>INDM 4210 Industrial Management or MGT 3315 Management of Organizations*** PR&T 3134 Advanced Powerplant Systems* PR&T 4032 Hydraulics & Pneumatics Major Option Area 2 Elective# General Education</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 4 3 3 3 16</p>	<p>Senior Year - Spring Semester</p> <p>HRM 3920 Human Resource Management or MKT 3400 Principles of Marketing*** ICAP 4112 Automotive Systems for Cont. Society* Free Choice Elective Major Option Area 2 Elective#</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 4 13</p>

Automotive Technology Management Major, B.S. Degree Design Technology Option - 128 hours

- *This class is offered only during the semester indicated.
- **SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- ***If students wish to take HRM 3920 rather than MKT 3400, they must take MGT 3315 rather than INDM 4210.
- #See the 2009 Undergraduate Catalog for acceptable courses for Major Option Area 2 Electives. Seven hours are required.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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.



UNIVERSITY OF
CENTRAL
MISSOURI

— Est. 1871 —

College of 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 National Association of Industrial Technology (NAIT).

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 National Association of Industrial Technology (NAIT) 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; 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.

University of Central Missouri • Four-Year Academic Guide

Automotive Technology Management Major (Service Mgmt. Option), B.S. Degree (43-838)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I ET 1026 DC Circuit Analysis MATH 1111 College Algebra PR&T 1010 Power Mechanics* Semester Total</p>	<p>Hrs. 3 4 3 3 13</p>	<p>Freshman Year - Spring Semester BTE 1210 Essentials of Managing Information ECON 1010 Principles of Macroeconomics ENGL 1030 Composition II ENGT 2530 Machine Tool Technology GRAP 1105 Basic AutoCAD GRAP 1110 Fundamentals of Drafting MATH 1131 Applied Calculus or TECH 1042 Technical Mathematics II Semester Total</p>	<p>Hrs. 2 3 3 3 1 2 3 17</p>
<p>Sophomore Year - Fall Semester ACCT 2100 Survey of Accounting COMM 1000 Public Speaking PHYS 1104: Introduction to the Sciences: Physics PR&T 2110 Engine Theory* PR&T 2130 Automotive Electrical Systems* Semester Total</p>	<p>Hrs. 3 3 4 4 4 18</p>	<p>Sophomore Year - Spring Semester BLAW 2720 Legal Environment of Business CHEM 1103 Intro. to the Sciences: Chemistry PR&T 2132 Fuel Systems & Emission Controls* PSY 1100 General Psychology General Education Semester Total</p>	<p>Hrs. 3 3 4 3 3 16</p>
<p>Junior Year - Fall Semester INDM 4210 Industrial Management or MGT 3315 Management of Organizations** PR&T 3120 Steering & Suspension Systems* PR&T 3124 Automotive Braking Systems* General Education Semester Total</p>	<p>Hrs. 3 4 4 3 14</p>	<p>Junior Year - Spring Semester CTE 3060 Technical Writing PR&T 3130 Computerized Engine Diagnostics* PR&T 3150 Diesel Technology* General Education Semester Total</p>	<p>Hrs. 3 4 3 6 16</p>
<p>Summer – Between Junior & Senior Year SOT 3022 Internship in Technology*** Semester Total</p>	<p>Hrs. 3 3</p>		
<p>Senior Year - Fall Semester MKT 3400 Principles of Marketing or HRM 3920 Human Resource Management** PR&T 3134 Advanced Powerplant Systems* PR&T 4032 Hydraulics & Pneumatics Major Option Area 3 Elective*** General Education Semester Total</p>	<p>Hrs. 3 4 3 3 3 16</p>	<p>Senior Year - Spring Semester ICAP 4112 Automotive Systems for Cont. Society* Major Option Area 3 Electives*** General Education Free Choice Elective Semester Total</p>	<p>Hrs. 3 6 3 3 15</p>

Automotive Technology Management Major, B.S. Degree Service Management Option - 128 hrs

- *This class is only offered the semester indicated.
- **If students wish to take HRM 3920 rather than MKT 3400, they must take MGT 3315 rather than INDM 4210.
- **SOT 3022 Internship (3.0 hrs) should be completed in the summer of the Junior/Senior year.
- ***See 2009 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 MAPP test 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.



UNIVERSITY OF
CENTRAL
MISSOURI

— Est. 1871 —

College of Science and Technology
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. For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Junior Year - Fall Semester</p> <p>AVIA 4042 Aviation Maintenance Management LIS 1600 University Library & Research Skills or BTE 1210 Essentials of Managing Information MATH 1111 College Algebra PHYS 1104 Introduction to the Sciences: Physics Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>2</p> <p>3</p> <p>4</p> <p>12</p>	<p>Junior Year - Spring Semester</p> <p>AVIA 4090 Aviation Law ECON 1010 Principles of Macroeconomics MATH 1131 Applied Calculus MGT 3315 Management of Organizations or INDM 4210 Industrial Management Major Elective Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>15</p>
<p>Senior Year - Fall Semester</p> <p>AVIA 4500 Aviation Safety CTE 3060 Technical Writing or MGT 3325 Business Communications GEOG 3201 Cultural Landscape Major Elective Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>12</p>	<p>Senior Year - Spring Semester</p> <p>AVIA 4430 Corporate Aviations COMM 3010 Interpersonal Communications ICAP 4113 Air Operations Management Major Elective Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>2</p> <p>12</p>

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

- A technology related Associate in Aviation Maintenance from an accredited community college or technical institute in this field of study will be accepted. 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.
- This plan is based on 69 credit hours of transfer work.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry and Physics

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.

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

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

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.
- ***See the 2009 Undergraduate Catalog for a listing of appropriate Major Electives.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology

Department of Biology and Earth Science

Biology

BACHELOR OF ARTS DEGREE

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Arts 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.

Because of the diversity within biology and the wide range of career options, considerable latitude is allowed in selecting upper-division biology courses for the electives required for the major. 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, 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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Biology Major, B.A. Degree (42-379)

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Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology or BIOL 1112 Biology II	4
BIOL 1110 Principles of Biology	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	Modern Language Requirement*	3
Modern Language Requirement*	3	General Education	5-6
General Education	3	Semester Total	15-16
Semester Total	13		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 2512 Cell Biology	3	BIOL 2020 Gen. Ecology	3
Modern Language Requirement*	3	BIOL 4012 Evolution	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
Upper-Level Electives in BIOL	4	Upper-Level Electives in BIOL	4
General Education	6	Free Choice Electives	12
Free Choice Electives	6	Semester Total	16
Semester Total	16		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 4000 Biology Colloquium	1	ICAP 4222 The Biological Perspective	3
Upper-Level Electives in BIOL	4	Upper-Level Electives in BIOL	4
Free Choice Electives	9	Free Choice Electives	9
Semester Total	14	Semester Total	16

Biology Major, B.A. Degree - 120 hours

- *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.
- 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 MAPP test 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.



UNIVERSITY OF
CENTRAL
MISSOURI

College of Science and Technology
Department of Biology and Earth Science

Biology

BACHELOR OF SCIENCE DEGREE, AREA A: GENERAL BIOLOGY

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Arts 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.

Because of the diversity within biology and the wide range of career options, considerable latitude is allowed in selecting upper-division biology courses for the electives required for the major. 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, 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

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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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Biology Major (Area A: General Biology), B.S. Degree (43-380)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
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
Semester Total	15-16	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
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	Semester Total	14
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 2511 Genetics	4	BIOL 4013 Intro. 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	Semester Total	15
Semester Total	16		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3431 Animal Phys. 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	Semester Total	15
Semester Total	14		

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

- *See the 2009 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 MAPP test 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 Science and Technology

Department of Biology and Earth Science

Biology

BACHELOR OF SCIENCE DEGREE, AREA B: ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Earth Science offers programs leading to a Bachelor of Science or Bachelor of Arts 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.

Because of the diversity within biology and the wide range of career options, considerable latitude is allowed in selecting upper-division biology courses for the electives required for the major. 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, 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

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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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Biology Major (Area B: Ecology & Evolutionary Biology), B.S. Degree (43-380)

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Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
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
Semester Total	13	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
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
Semester Total	15	Semester Total	16-17

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 4709 Plant Ecology	4	BIOL 4013 Intro. Experimental Design & Analysis	3
General Education	6	BIOL 4711 Animal Ecology	4
Free Choice Electives	5	Free Choice Electives	9
Semester Total	15	Semester Total	16

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
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	Semester Total	15
Semester Total	14		

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

- *See the 2009 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 MAPP test 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 Science and Technology

Department of Biology and Earth Science

Biology

BACHELOR OF SCIENCE DEGREE, AREA C: WILDLIFE AND NATURAL RESOURCES CONSERVATION

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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, 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.

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University of Central Missouri • Four-Year Academic Guide

Biology Major (Area C: Wildlife & Natural Resource Conservation), B.S. Degree (43-380)

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Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
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
Semester Total	13	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
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	5-6
Semester Total	15	Semester Total	15-16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3711 Plant Identification	4	BIOL 4013 Intro. Experimental Design & Analysis	3
General Education	6	Wildlife & Habitat Biology Major Area Elective*	4
Free Choice Electives	6	Free Choice Electives	6
Semester Total	16	Semester Total	13

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 4000 Biology Colloquium	1	ICAP 4222 The Biological Perspective	3
Wildlife Mgmt. & Cons. Major Area Electives*	6	Wildlife & Habitat Biology Major Area Elective*	4
Free Choice Elective	9	Free Choice Electives	9
Semester Total	16	Semester Total	16

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

- *See the 2009 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 MAPP test 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 Science and Technology

Department of Biology and Earth Science

Biology

BACHELOR OF SCIENCE DEGREE, AREA D: ORGANISMAL BIOLOGY

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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.

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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, 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.

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To Learn More

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University of Central Missouri • Four-Year Academic Guide

Biology Major (Area D: Organismal Biology), B.S. Degree (43-380)

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Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
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
Semester Total	13	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 1112 Animal Biology	4	CHEM 1132 General Chemistry II	5
BIOL 2511 Genetics	4	Major Area Elective*	3-4
CHEM 1131 General Chemistry I	5	General Education	8
ENGL 1030 Composition II	3	Semester Total	16-17
Semester Total	16		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 4514 Molecular Biology	3	Major Area Electives*	6
PHYS 1101 College Physics I	4	Free Choice Electives**	10
General Education	6	Semester Total	16
Semester Total	13		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3431 Animal Phys. 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	Semester Total	15
Semester Total	14-15		

Biology Major (Area D: Organismal Biology), B.S. Degree - 120 hours

- *See the 2009 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.
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College of Science and Technology Department of Biology and Earth Science

Biology

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

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University of Central Missouri • Four-Year Academic Guide

Biology Major (Area E: Biomedical/Cellular & Molecular Biology), B.S. Degree (43-380)

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

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

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

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

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

- *See the 2009 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.
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College of Science and Technology

Department of Biology and Earth Science

Biology

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

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Student Involvement

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University of Central Missouri • Four-Year Academic Guide

Biology Major (Area F: Pre-Med, Pre-Dental, Pre-Vet), B.S. Degree (43-380)

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Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
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
Semester Total	13	General Education	3
		Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
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	Semester Total	16
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
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
Semester Total	17	Semester Total	14

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
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	Semester Total	15
Semester Total	15		

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

- *See the 2009 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 MAPP test 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 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 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 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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology <i>BIOL 1111 Plant Biology</i> <i>EASC 1004 Intro. to the Sciences: Geology</i> <i>ENGL 1020 Composition I</i> <i>General Education MATH</i> Semester Total	Hrs 1 4 4 3 3 15	Freshman Year -Spring Semester BIOL 1112 Animal Biology <i>CHEM 1131 Chemistry I</i> <i>ENGL 1030 Composition II</i> POLS 1510 American Government Semester Total	Hrs 4 5 3 3 15
Sophomore Year - Fall Semester BIOL 2511 Genetics BIOL 2512 Cell Biology EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2400 Educational Psychology <i>HIST 1350 or 1351 US History</i> Semester Total	Hrs 4 3 2 1 3 3 16	Sophomore Year - Spring Semester BIOL 2020 General Ecology PHYS 1101 Physics I (4) or PHYS 1104 Intro. to Sciences: Physics (4) or PHYS 2121 University Physics (5) PSY 4230 Psychology of Adolescence General Education Semester Total	Hrs 3 4-5 3 6 16-17
Junior Year - Fall Semester BIOL 3611 Microbiology BIOL 3712 Field Natural History EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Children EDFL 4300 Educ. Measurement & Evaluation Major Electives* Semester Total	Hrs 4 4 2 2 4-5 16-17	Junior Year - Spring Semester BIOL 3431 Animal Physiology or BIOL 4411 Plant Physiology CTE 2000 Technology & Society EDFL 4210 Teaching Reading in Sec. Schools Major Electives* Semester Total	Hrs 4 3 2 5 14
Senior Year - Fall Semester BIOL 4050 Science Teaching Methods EDFL 3500 Secondary Teaching & Behavior Mgt. FLDX 3550 Practicum in Secondary Instruction General Education Semester Total	Hrs 3 3 1 9 16	Senior Year - Spring Semester BIOL 4080 Teaching Secondary Science FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II General Education Semester Total	Hrs 3 5 4 3 15

Biology Major, B.S. in Ed. Degree - 124 hours

- *See catalog for Unified Science Certification requirements.
- 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 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.



College of Arts, Humanities, and Social Sciences
Department of Communication

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.

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 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 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 Maastricht Center for Transatlantic Studies in Maastricht, The Netherlands.

To Learn More

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

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester		Hrs	Freshman Year - Spring Semester		Hrs
COMM 1000 Public Speaking		3	COMM 2100 Intro. 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	Semester Total		14-15
Semester Total		14			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
COMM 2410 Multimedia I or COMM 2411 Audio Production I		3	COMM 2410 Multimedia I or 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
Semester Total		15	Semester Total		15

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
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
Semester Total		17	Semester Total		18

Summer - Between Junior/Senior Year	Hrs
COMM 4295 Internship (or Practicum)**	1-3
Semester Total	1-3

Senior Year-Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
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
Coursework for Minor		6	Industry Practice & Analysis Elective*		3
Free Choice Elective		3	Theory & Criticism Elective*		3
Semester Total		15	Free Choice Electives		5
			Semester Total		15

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

- *See the 2009 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 2009 Undergraduate Catalog or the Department of Communication 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 MAPP test 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

Business Teacher Education

BACHELOR OF SCIENCE IN EDUCATION DEGREE

A Bachelor of Science degree in business teacher education 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. They may also teach in private post-secondary settings, such as private proprietary schools and private two-year colleges, or in industry and business training programs.

Skills taught in business teacher education programs include: communication, information systems/technology, financial procedures, economics, entrepreneurship, international business, principles of management, marketing and law, interpersonal and leadership skills, and career development.

Academic Program

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 education and business courses. Education courses lead students to become certified teachers in Missouri business education and possibly in marketing education with well-chosen elective coursework. An alternative certification program is an option for students who have business work experience and a bachelor's degree in a business area.

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.

Facilities

Students of business teacher education at UCM will find an opportunity to use current business software applications and other current teaching technologies in comfortable, attractive classrooms.

For More Information

To learn more write to the Department of Career and Technology Education, Grinstead 120, UCM, Warrensburg, MO 64093; email rwilliams@ucmo.edu; visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

Business Teacher Education Major, B.S. in Ed. Degree (41-270)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BTE 1210 Essentials of Managing Information CTE 1000 Introduction to Career Tech. Education ENGL 1020 Composition I General Education MATH General Education Science with laboratory Semester Total	Hrs. 3 3 2 3 4 15	Freshman Year - Spring Semester BTE 2535 Data Input Technologies COMM 1000 Public Speaking ECON 1010 Principles of Macroeconomics ENGL 1030 Composition II POLS 1510 American Government Semester Total	Hrs. 3 3 3 3 3 15
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Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting FIN 1820 Personal Finance or CTE 3110 Financial Management Education EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology HIST 1350 US History (or HIST 1351) Semester Total	Hrs. 3 3 2 1 3 3 15	Sophomore Year - Spring Semester BLAW 2720 Legal Environment Business BTE 3536 Integrated Productivity Applications Departmentally Approved Electives (CTE 3060*) General Education courses Semester Total	Hrs. 3 3 3 6 15
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Junior Year - Fall Semester BTE 4501 Managing Classroom Technologies EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Child MGT 3325 Business Communications MKT 3400 Principles of Marketing General Education courses Semester Total	Hrs. 3 2 3 3 6 17	Junior Year - Spring Semester BTE 4550 Web Communication for Business* EDFL 4210 Teaching of Reading in Secondary Ed. MGT 3315 Management of Organizations PSY 4230 Psychology of Adolescence (Div. III) Departmentally Approved Electives (BTE 4510*) General Education courses Semester Total	Hrs. 3 2 3 3 3 3 17
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**Pass Praxis II Test for Business Education
Apply for Student Teaching**

Senior Year - Fall Semester BTE 4210 Methods of Teaching Business Education BTE 4243 Curr. Constr. for Business & Mktg. Educ. EDFL 4300 Education Measurement & Evaluation EDFL 3500 Behavioral Management FLDX 3550 Practicum in Secondary Instruction Departmentally Approved Electives (BTE 4560*) Semester Total	Hrs. 3 3 2 3 1 3 15	Senior Year - Spring Semester BTE 4220 Secondary Field Experience II BTE 4230 Methods of Teaching Business-General BTE 4280 Implementing Business Education FLDX 4595 Student Teaching I ICAP 4468 Student Teaching II Semester Total	Hrs. 1 2 3 5 4 15
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Business Teacher Education Major, B.S. in Ed. Degree - 124 hours

- *Recommended departmental electives (9) See Program advisor for alternative Marketing Teacher Education courses suggestions.
- 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 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.



College of Science and Technology
Department of Biochemistry, Chemistry and Physics

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.

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
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
Semester Total	16	Semester Total	14
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 College Physics I	4	CHEM 3212 Quantitative Analysis	3
General Education	6	ENGL 2220 World Masterpieces*	3
Semester Total	14	Free Choice Electives (or PHYS 1102)***	4
		Semester Total	14
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
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
Semester Total	16	Free Choice Electives	5
		Semester Total	16-17
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
Chemistry Major Elective#	3-4	General Education (IGEN/ICAP)	3
Free Choice Electives	11-12	Free Choice Electives	12
Semester Total	15	Semester Total	15

Chemistry 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 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 MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry and Physics

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 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

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.

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

University of Central Missouri • Four-Year Academic Guide

Chemistry Major, B.S. Degree (43-393)

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Freshman Year - Fall Semester CHEM 1131 General Chemistry I ENGL 1020 Composition I MATH 1151 Calculus & Analytical Geometry I General Education Technology Semester Total AE 1400 Freshman Seminar*	Hrs. 5 3 5 2-3 15-16 1	Freshman Year - Spring Semester CHEM 1132 General Chemistry II ENGL 1030 Composition II MATH 1152 Calculus & Analytical Geometry II General Education Semester Total	Hrs. 5 3 5 3 16
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Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I PHYS 1101 College Physics I General Education Semester Total	Hrs. 4 4 6 14	Sophomore Year - Spring Semester CHEM 3212 Quantitative Analysis CHEM 3342 Organic Chemistry II PHYS 1102 College Physics II General Education Semester Total	Hrs. 3 4 4 3 14
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Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry General Education CHEM 3421 Intermediate Biochemistry CHEM 4231 Instrumental Analysis Semester Total	Hrs. 4 3 3 4 14	Junior Year - Spring Semester General Education CHEM 3920 Communication Skills in Chemistry** CHEM 4910 Research in Chemistry Semester Total	Hrs. 12 2 1 15
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Senior Year - Fall Semester CHEM 4531 Physical Chemistry I** CHEM 4910 Research in Chemistry Chemistry Major Elective**/** General Education (IGEN/ICAP) Free Choice Electives Semester Total	Hrs. 4 1 3 3 5 16	Senior Year - Spring Semester CHEM 4532 Physical Chemistry II** CHEM 4910 Research in Chemistry Chemistry Major Elective**/** Free Choice Electives Semester Total	Hrs. 4 2 0-2 8-10 16
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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 B.S. in Chemistry requires a minimum of 3 credit hours of major electives. Students pursuing ACS-CPT are required to take 4 credit hours of major electives.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry and Physics

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 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. A research component in the Bachelor of Science in Education degree program in chemistry 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 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 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.

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester BIOL 1110 Prin. of Biology or BIOL 1111 Plant Biol. CHEM 1131 General Chemistry I CTE 2000 Technology & Society ENGL 1020 Composition I Semester Total</p>	<p>Hrs 3-4 5 3 3 14-15</p>	<p>Freshman Year - Spring Semester BIOL 1005 Intro. to Environ. Sciences CHEM 1132 General Chemistry II ENGL 1030 Composition II HIST 1350 or 1351 US History General Education Semester Total</p>	<p>Hrs 3 5 3 3 3 17</p>
<p>Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology MATH 1151 Calculus & Analytic Geometry I General Education Semester Total</p>	<p>Hrs 4 2 1 3 5 3 18</p>	<p>Sophomore Year - Spring Semester CHEM 3212 Quantitative Analysis EASC 1004 Introduction to the Sciences: Geology EDSP 2100 Exceptional Child or PSY 4200 PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123) POLS 1510 American Government Semester Total</p>	<p>Hrs 3 4 2 4-5 3 16-17</p>
<p>Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry* PSY 4230 Psychology of Adolescence Major Elective*** General Education Semester Total</p>	<p>Hrs 4 3 3-4 6 16-17</p>	<p>Junior Year - Spring Semester CHEM 4531 or 4532 Physical Chemistry** EDFL 4210 Teaching of Reading in Sec. Schools EDFL 4300 Educ. Measurement & Evaluation Major Elective**** General Education Semester Total</p>	<p>Hrs 4 2 2 3-4 6 17-18</p>
<p>Senior Year - Fall Semester CHEM 3421 Intermediate Biochemistry CHEM 4050 Science Teaching Methods Major Elective*** EDFL 3500 Sec. Teaching & Behavioral Mgt. FLDX 3550 Practicum in Sec. Instruction Semester Total</p>	<p>Hrs 3 3 3-4 3 1 13-14</p>	<p>Senior Year - Spring Semester CHEM 4080 Secondary Science Teaching FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs 3 5 4 12</p>

Chemistry Major, B.S. in Ed. Degree - 124 hours

- *CHEM 3111 is offered during odd Falls (2009, 2011, etc.) and should be taken accordingly. See department website for offerings.
- **CHEM 4531 is typically offered even Fall semesters and CHEM 4532 is typically offered odd Spring Semesters.
- ***See catalog for major electives and Unified Science Certification requirements. Number of major electives ranges from 8-10 credit hours and will depend on biology and physics choices.
- 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 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.



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 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, write to the Department of Educational Leadership and Human Development, UCM, Lovinger 4101, Warrensburg, MO 64093, call 660-543-4341 or visit

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.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AE 1450 Valuing Differences CFD 1010 Individual & Family Relationships ENGL 1020 Composition I PSY 1100 General Psychology General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 1 3 3 3 5-6 15-16 1	Freshman Year - Spring Semester CFD 1220 Child Development ENGL 1030 Composition II ECEL 2110 World Diversity & America SOC 1800 General Sociology General Education Semester Total	Hrs. 3 3 3 3 4 16
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Sophomore Year - Fall Semester CFD 1230 Observation of Children HIST 1350 or 1351 U.S. History** General Education Free Choice Elective** Semester Total	Hrs. 2 3 3 3 14	Sophomore Year - Spring Semester CTE 3110 or FACS 3120 or FIN 1820 SOC 2805 Introduction to Social Research General Education Free Choice Electives** Semester Total	Hrs. 3 3 3 6 15
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Junior Year - Fall Semester CFD 3230 Family Systems & Life Span Develop. CFD 3710 Field Exp. in Child & Family Development General Education Free Choice Electives** Semester Total	Hrs. 3 3 3 6 15	Junior Year - Second Semester CFD 3240 Parent-Child Interaction CFD 3250 Org. & Admin. of Prog. for Young Child. CFD 4220 Sexuality Across the Lifespan General Education Free Choice Electives** Semester Total	Hrs. 3 3 3 3 3 15
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Summer Semester CFD 4710 Internship*** Semester Total	Hrs. 3 3
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Senior Year - Fall Semester CFD 3222 Early Childhood CFD 4250 Selected Issues CFD 4850 Family Policy and Advocacy General Education Free Choice Electives** Semester Total	Hrs. 3 3 3 3 3 15	Senior Year - Spring Semester CFD 4250 Selected Issues CFD 4745 Senior Seminar Free Choice Electives** Semester Total	Hrs. 3 3 6 12
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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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

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.

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 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 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 Maastricht Center for Transatlantic Study in Maastricht, The Netherlands.

To Learn More

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year – Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
COMM 1000 Public Speaking	3	COMM 2100 Intro. 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	Semester Total	16
General Education	3		
Semester Total	16		
Sophomore Year – Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
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	Semester Total	14-15
Semester Total	17		
Junior Year – Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
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	Semester Total	15
Free Choice Electives	3		
Semester Total	15-16		
Senior Year – Fall Semester	Hrs	Senior Year – Spring Semester	Hrs
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	Semester Total	15
Semester Total	15		

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 2009 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 MAPP test 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 Science and Technology
School of Technology

Computer-Aided Drafting & Design Technology

BACHELOR OF SCIENCE DEGREE

Offering its first drafting class in 1904, University of Central Missouri has a strong reputation for teaching drafting and design 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).

This is the only four-year baccalaureate CADD technology program in the midwest, and it enrolls the largest number of declared computer-aided drafting and design majors of any university in the state. The American Design Drafting Association tests and certifies students upon graduation. Central Missouri's Computer-Aided Drafting & Design Program is accredited by the National Association of Industrial Technology (NAIT).

The department's CADD technology area 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.

Computer-aided drafting and design 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, Architectural, CAD/CAM, Civil/GIS, Computer Graphics, and Management/Support.

Internships

All computer-aided drafting and design 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 computer-aided drafting 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 Computer-Aided Drafting and Design 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.

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

University of Central Missouri • Four-Year Academic Guide

Computer-Aided Drafting & Design Technology Major, B.S. Degree (43-231)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>ENGL 1020 Composition I GRAP 1100 Orientation to Drafting* GRAP 1105 Basic AutoCAD GRAP 1110 Fundamentals of Drafting MATH 1111 College Algebra General Education Semester Total</p>	<p>Hrs.</p> <p>3 1 1 2 3 6 16</p>	<p>Freshman Year - Spring Semester</p> <p>ENGL 1030 Composition II GRAP 1120 Machine Drafting* GRAP 2170 Introduction Computer-Aided Drafting GRAP 2171 Introduction to MicroStation PHYS 1104 Introduction to the Sciences: Physics General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 2 2 4 3 17</p>
<p>Sophomore Year - Fall Semester</p> <p>ART 1800 Ideas & the Visual Arts GRAP 2130 Technical Illustration GRAP 2150 Descr. Geometry for Eng. Technology GRAP 3140 Seminar in Drafting* MATH 1112 College Trigonometry General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 .5 2 3 14.5</p>	<p>Sophomore Year - Spring Semester</p> <p>BTE 1210 Essentials of Managing Information CMGT 2020 Mechanics of Materials GRAP 2160 Structural Drafting General Education Semester Total</p>	<p>Hrs.</p> <p>2 3 3 6 14</p>
<p>Junior Year - Fall Semester</p> <p>EASC 1004 Intro. to the Sciences: Geology (required for Architectural & Civil/GIS areas) or Gen. Ed. Science (non-lab & non-PHYS) ENGT 2530 Machine Tool Technology GRAP 3140 Seminar in Drafting* GRAP 3150 Civil Drafting General Education Semester Total</p>	<p>Hrs.</p> <p>3-4 3 .5 3 6 15.5-16.5</p>	<p>Junior Year - Spring Semester</p> <p>GRAP 3175 Managing Comp. Apps. for Drafting MGT 3315 Management of Organizations or INDM 4210 Industrial Management*** Major Area Electives** Free Choice Elective Semester Total</p>	<p>Hrs.</p> <p>3 3 3 6 15</p>
<p>Senior Year - Fall Semester</p> <p>CTE 3060 Technical Writing GRAP 3140 Seminar in Drafting* GRAP 3170 Computer Drafting Systems IGEN 3116 Creative Problem Solving SOT 3022 Internship in Technology Major Area Electives** Free Choice Elective Semester Total</p>	<p>Hrs.</p> <p>3 1 3 3 1 3 3 17</p>	<p>Senior Year - Spring Semester</p> <p>GRAP 4170 CADD for Engineering Technology GRAP 4180 Industrial Design HRM 3920 Human Resource Management or INDM 4260 Organizational Dynamics*** Major Area Electives** Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 6 15</p>

Computer-Aided Drafting & Design Technology Major, B.S. Degree - 124 hours

- *This class is only offered the semester indicated.
- **Students choose an area of specialty from the following six options: Mechanical, Architectural, CAD/CAM, Civil/GIS, Computer Graphics, or Management and Support. Fifteen credit hours of Major Area Electives are required. See program coordinator for the list of approved classes.
- ***Students either take MGT 3315 and HRM 3920 OR INDM 4210 and INDM 4260.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Administration
Department of Computer Information Systems

Computer Information Systems

SOFTWARE DEVELOPMENT CONCENTRATION, BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Employers throughout the United States turn to UCM's Department of 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 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 CIS department for details.

To Learn More

For more information write to the Department of Computer Information Systems, UCM, Dockery 300, Warrensburg, MO 64093, call 660-543-4767 or visit 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.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>BTE 1210 Essentials of Managing Information* 2 ENGL 1020 Composition I 3 MATH 1111 College Algebra* 3 PSY 1100 Gen. Psych. or SOC 1800 Gen. Soc. 3 General Education 3 Semester Total 14</p>	<p>Hrs.</p>	<p>Freshman Year - Spring Semester</p> <p>CIS 1605 Business Application Software 2 COMM 1000 Public Speaking 3 ECON 1010 Principles of Macroeconomics* 3 ENGL 1030 Composition II 3 General Education 6 Semester Total 17</p>	<p>Hrs.</p>
<p>Sophomore Year - Fall Semester</p> <p>ACCT 2101 Principles of Financial Accounting* 3 CIS 2605 Visual Basic 3 ECON 1011 Principles of Microeconomics* 3 General Education 7 Semester Total 16</p>	<p>Hrs.</p>	<p>Sophomore Year - Spring Semester</p> <p>ACCT 2102 Principles of Managerial Accounting* 3 BLAW 2720 Legal Environment of Business* 3 CIS 2615 Introduction to JAVA 3 FIN 2801 Business Statistics I* 3 General Education 3 Semester Total 15</p> <p>Note: Complete all B.S.B.A. Admission requirements and apply for admission*</p>	<p>Hrs.</p>
<p>Junior Year - Fall Semester</p> <p>CIS 2665 Prin. of Data Communications & LAN 3 CIS 3630 Management Information Systems** 3 MGT 3315 Management of Organizations** 3 MKT 3405 Marketing Policy** 3 IBE Practicum (CIS 3685/MKT 3485/MGT 3385)** 3 Semester Total 15</p>	<p>Hrs.</p>	<p>Junior Year - Spring Semester</p> <p>CIS 3650 Database Management Systems 3 CIS 3660 Analysis & Design of CIS 3 FIN 3801 Business Statistics II 3 MGT 3325 Business Communications 3 CIS Major Elective 3 General Education 3 Semester Total 18</p>	<p>Hrs.</p>
<p>Senior Year - Fall Semester</p> <p>CIS 3670 User Interface Design 3 CIS 4660 Application Development Using JAVA or CIS 4670 Application Devel. Using VB.net 3 CIS 4680 Data Resource Management 3 FIN 3850 Principles of Finance 3 MGT 3360 Production/Operations Management 3 Semester Total 15</p>	<p>Hrs.</p>	<p>Senior Year - Spring Semester</p> <p>CIS 4690 Sys. Architecture & Dev. (Spring only) 3 ICAP 4357 Organization Policy & Strategy 3 CIS Major Electives 5 General Education 3 Semester Total 14</p>	<p>Hrs.</p>

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

124 Hours

- *Students in this major must complete eight preadmission courses, with 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 (*).
- **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, ECON 1010 and 1011, and junior standing.
- 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 MAPP test 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 Administration
Department of Computer Information Systems

Computer Information Systems

NETWORKING CONCENTRATION, BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

Employers throughout the United States turn to UCM's Department of 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 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 CIS department for details.

To Learn More

For more information write to the Department of Computer Information Systems, UCM, Dockery 300, Warrensburg, MO 64093, call 660-543-4767 or visit 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.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>BTE 1210 Essentials of Managing Information* 2 ENGL 1020 Composition I 3 MATH 1111 College Algebra* 3 PSY 1100 Gen. Psych. or SOC 1800 Gen. Soc. 3 General Education 3 Semester Total 14</p>	<p>Freshman Year - Spring Semester</p> <p>CIS 1605 Business Application Software 2 COMM 1000 Public Speaking 3 ECON 1010 Principles of Macroeconomics* 3 ENGL 1030 Composition II 3 General Education 6 Semester Total 17</p>
<p>Sophomore Year - Fall Semester</p> <p>ACCT 2101 Principles of Financial Accounting* 3 CIS 2605 Visual Basic 3 ECON 1011 Principles of Microeconomics* 3 General Education 7 Semester Total 16</p>	<p>Sophomore Year - Spring Semester</p> <p>ACCT 2102 Principles of Managerial Accounting* 3 BLAW 2720 Legal Environment of Business* 3 CIS 2615 Introduction to JAVA 3 FIN 2801 Business Statistics I* 3 General Education 3 Semester Total 15</p> <p>Note: Complete all B.S.B.A. Admission requirements and apply for admission*</p>
<p>Junior Year - Fall Semester</p> <p>CIS 2665 Prin. of Data Communications & LAN 3 CIS 3630 Management Information Systems** 3 MGT 3315 Management of Organizations** 3 MKT 3405 Marketing Policy** 3 IBE Practicum (CIS 3685/MKT 3485/MGT 3385)** 3 Semester Total 15</p>	<p>Junior Year - Spring Semester</p> <p>CIS 3650 Database Management Systems 3 CIS 3660 Analysis & Design 3 CIS 3665 Data Communication Technologies 3 FIN 3801 Business Statistics II 3 MGT 3325 Business Communications 3 General Education 3 Semester Total 18</p>
<p>Senior Year - Fall Semester</p> <p>CIS 4665 Data Comm. & Distr. Data Processing 3 FIN 3850 Principles of Finance 3 MGT 3360 Production/Operations Management 3 CIS Elective 3 General Education 3 Semester Total 15</p>	<p>Senior Year - Spring Semester</p> <p>CIS 4685 Network Planning, Design & Security 3 CIS 4690 Sys. Architecture & Devel. (Spring only) 3 ICAP 4357 Organization Policy & Strategy 3 CIS Electives 5 Semester Total 14</p>

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

- *Students in this major must complete eight preadmission courses, with 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 (*).
- **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, ECON 1010 and 1011, and junior standing.
- 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 MAPP test 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 Science and Technology
Department of Mathematics and Computer Science

Computer Science

AREA 1: COMPUTER TECHNOLOGY, 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 as well as mathematics.

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, 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

Computer science graduates find themselves in a variety of environments in academic, research, industry, government, private and business organizations. Challenges include analyzing problems for solutions, formulating and testing, using advanced communications or multi-media equipment, or working in teams for product development.

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 page, at www.ucmo.edu/math-cs.

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

University of Central Missouri • Four-Year Academic Guide

Computer Science Major (Area 1 Computer Technology), B.S. Degree (43-281)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester MATH 1151 Calculus & Analytic Geometry I CS 1100 Computer Programming I CS 1400 Discrete Structures I* PHYS 1104 Introduction to the Science: Physics Semester Total AE 1400 Freshman Seminar**	Hrs. 5 3 3 4 15 1	Freshman Year - Spring Semester CS 1110 Computer Programming II CS 2400 Discrete Structures II* ENGL 1020 Composition I General Education Semester Total	Hrs. 3 3 3 6 15
Sophomore Year - Fall Semester CS 2300 Data Structures* MATH 3311 Intro. to Mathematical Statistics* CS 2100 Web Programming* ENGL 1030 Composition II General Education Semester Total	Hrs. 3 3 3 3 3 15	Sophomore Year - Spring Semester CS 3100 Programming Languages* CS 2200 Intro. to Computer Organization* CS 3110 Object-Oriented Programming* Area 1 CS or MATH Major Elective General Education Semester Total	Hrs. 3 3 3 3 2 14
Junior Year - Fall Semester CS 3200 Computer Architecture* CS 4300 Algorithm Design & Analysis* CS 4800 Networks & Mobile Computing* General Education Semester Total	Hrs. 3 3 3 6 15	Junior Year - Spring Semester CS 4500 Operating Systems* CS 4910 Software Engineering* Area 1 CS or MATH Major Elective General Education Semester Total	Hrs. 3 3 3 6 15
Senior Year - Fall Semester CS 4600 Database Theory & Applications* CS 4900 Compiler* Area 1 CS or MATH Major Elective Free Choice General Education Semester Total	Hrs. 3 3 3 6 15	Senior Year - Spring Semester ICAP 4225 Computer Science Capstone Exp.* Area 1 CS or MATH Major Elective General Education Free Choice Electives Semester Total	Hrs. 3 3 3 7 16

Computer Science Major (Area 1 Computer 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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 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.

UCM's Department of Mathematics and Computer Science is meeting this expanding need with a program that includes in-depth training in computer science as well as mathematics.

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, 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

Computer science graduates find themselves in a variety of environments in academic, research, industry, government, private and business organizations. Challenges include analyzing problems for solutions, formulating and testing, using advanced communications or multi-media equipment, or working in teams for product development.

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 page, at www.ucmo.edu/math-cs.

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

University of Central Missouri • Four-Year Academic Guide

Computer Science Major (Area 2 Computer Science), B.S. Degree (43-281)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>MATH 1151 Calculus & Analytic Geometry I CS 1100 Computer Programming I CS 1400 Discrete Structures I* PHYS 1101 College Physics I Semester Total AE 1400 Freshman Seminar**</p>	<p>Hrs.</p> <p>5 3 3 4 15 1</p>	<p>Freshman Year - Spring Semester</p> <p>CS 1110 Computer Programming II CS 2400 Discrete Structures II* MATH 1152 Calculus & Analytic Geometry II PHYS 1102 College Physics II Semester Total</p>	<p>Hrs.</p> <p>3 3 5 4 15</p>
<p>Sophomore Year - Fall Semester</p> <p>CS 2300 Data Structures* MATH 3311 Intro. to Mathematical Statistics* MATH 3710 Linear Algebra ENGL 1020 Composition I General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>	<p>Sophomore Year - Spring Semester</p> <p>CS 3100 Programming Languages* CS 2200 Intro. to Computer Organization* ENGL 1030 Composition II General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 8 17</p>
<p>Junior Year - Fall Semester</p> <p>CS 3200 Computer Architecture* CS 4300 Algorithm Design & Analysis* General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 9 15</p>	<p>Junior Year - Spring Semester</p> <p>CS 4500 Operating Systems* CS 4910 Software Engineering* Area 2 CS or MATH Major Elective General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 6 15</p>
<p>Senior Year - Fall Semester</p> <p>CS 4600 Database Theory & Applications* CS 4900 Compiler* Area 2 CS or MATH Major Elective General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 6 15</p>	<p>Senior Year - Spring Semester</p> <p>ICAP 4225 – Computer Science Capstone Exp.* Area 2 CS or MATH Major Elective Free Choice Electives Semester Total</p>	<p>Hrs.</p> <p>3 3 7 13</p>

Computer Science Major (Area 2 Computer Science), 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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Biology and Earth Science

Conservation Enforcement

BACHELOR OF SCIENCE DEGREE

The Bachelor of Science degree 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. Biology and Earth Science web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Conservation Enforcement, B.S. Degree (43-383)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology BIOL 1110 Principles of Biology ENGL 1020 Composition I General Education Semester Total	Hrs 1 3 3 6 13	Freshman Year -Spring Semester BIOL 1111 Plant Biology CJ 1000 Introduction to Criminal Justice ENGL 1030 Composition II General Education Semester Total	Hrs 4 3 3 5 15
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Sophomore Year - Fall Semester BIOL 1112 Animal Biology CTE 3060 Technical Writing General Education Semester Total	Hrs 4 3 9 16	Sophomore Year - Spring Semester BIOL 2020 General Ecology Major Electives* General Education Semester Total	Hrs 3 3 9 15
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Junior Year - Fall Semester COMM 2620 Public Relations CJ 2300 Criminal Law BIOL 3711 Plant Identification General Education Free Choice Electives** Semester Total	Hrs 3 3 4 3 3 16	Junior Year - Spring Semester CJ 3303 Criminal Procedure General Education Free Choice Electives** Semester Total	Hrs 3 3 9 15
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Senior Year - Fall Semester BIOL 4000 Biology Colloquium CJ 4302 Criminal Evidence Major Electives* Free Choice Electives** Semester Total	Hrs 1 3 3 7 14	Senior Year - Spring Semester ICAP 4222 The Biological Perspective Major Electives* Free Choice Electives** Semester Total	Hrs 3 4 9 16
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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.
- 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 MAPP test 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 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 National Association for Industrial Technology (NAIT). 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 Total Cost Management (AACE). In addition, the National Association of Industrial Technology (NAIT) student group now exists within the School of Technology.

Scholarships

Construction industry scholarships are offered by such organizations as the American Association of Cost Estimators, Associated General Contractors of America, Heavy Constructors Association, National Association of Women in Construction, Midwest Concrete Industry Board, Kansas City Builders Association, J.E. Dunn Construction Company, Concrete Reinforcing Steel Institute, Construction Specifications Institute of Kansas City, and Garney Construction Company.

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 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.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
CMGT 1300 Intro. to Construction Management	2	CMGT 2310 Construction Plans & Specifications	3
CMGT 1301 Seminar in Construction Management	.5	MATH 1112 College Trigonometry	2
GRAP 1105 Basic AutoCAD	1	BTE 1210 Essentials of Managing Information	2
GRAP 1110 Fundamentals of Drafting	2	PHYS 1103 Introduction to the Sciences: Physics	3
MATH 1111 College Algebra	3	ENGL 1030 Composition II	3
EASC 1004 Introduction to the Sciences: Geology	4	General Education	3
ENGL 1020 Composition I	3	Semester Total	16
Semester Total	15.5		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
CMGT 2020 Mechanics of Materials	3	CMGT 1301 Seminar in Construction Management	.5
CMGT 2325 Project Cost Estimating	3	ENGT 2040 Engineering Materials Science	4
CMGT 2340 Surveying & Construction Layout	3	GRAP 3160 Res. Arch. Drawing or GRAP 3150 Civil Drafting or GRAP 2160 Structural Drafting	3
MATH 1131 Applied Calculus	3	ECON 1010 Principles of Macroeconomics	3
ACCT 2101 Principles of Financial Accounting	3	EASC 2100 Engineering Geology	4
General Education	3	General Education	3
Semester Total	18	Semester Total	17.5
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
CMGT 1301 Seminar in Construction Management	.5	CMGT 3020 Applied Strgth. Materials	3
MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3	CMGT 3320 Princ. of Construction Management	3
CMGT 3330 Building Codes & Code Administration	3	BLAW 2720 Legal Environment of Business	3
CMGT 3355 Construction Planning & Scheduling	3	ACCT 2102 Princ. of Managerial Accounting or MKT 3400 Principles of Marketing	3
FIN 2801 Business Statistics I	3	General Education	3
General Education	3	Semester Total	15
Semester Total	15.5		
Summer - Between Junior & Senior Year	Hrs.		
SOT 3022 Internship in Technology*	1		
Semester Total	1		
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
CMGT 1301 Seminar in Construction Management	.5	CMGT 4310 Construction Safety	3
CMGT 3350 Bldg Structures: Methods & Materials	3	CMGT 4330 Mechanical Systems for Buildings	3
CMGT 4325 Advanced Estimating	3	CMGT 4355 Computer Based Project Control	3
HRM 3920 Human Resources Management or INDM 4260 Organizational Dynamics	3	ICAP 4109 Construction Operations	3
General Education	6	General Education	3
Semester Total	15.5	Semester Total	15

Construction Management Major, B.S. Degree - Minimum hours 129

- *SOT 3022 Internship in Technology should be done during the summer between the junior/senior years.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry & Physics

Cooperative Engineering 3-2 Program

BACHELOR OF ARTS DEGREE IN PHYSICS

The Cooperative 3-2 Pre-Engineering Program requires three years of courses at University of Central Missouri before transferring to a school of engineering. It also permits students to receive the BA degree in physics from UCM upon the receipt of a BS degree in any engineering discipline from an ABET-approved school of engineering.

This popular program offers students a strong physics background from which to pursue any of the engineering fields available at major engineering schools. A transfer agreement with the University of Missouri-Rolla, the University of Missouri-Columbia, and the University of Kansas allows students the opportunity to take the necessary non-engineering-specific courses for these universities' engineering programs at Central Missouri before transferring.

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 UCM's Department of 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 Department of Chemistry and 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.

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 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.

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

University of Central Missouri • Four-Year Academic Guide

Cooperative Engineering 3-2, B.A. Degree (42-395)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
CHEM 1131 General Chemistry I	5	PHYS 2121 University Physics I	5
MATH 1151 Calculus & Analytic Geometry I	5	MATH 1152 Calculus & Analytic Geometry II	5
ENGL 1020 Composition I	3	CHEM 1132 General Chemistry II	5
General Education (or PHYS 1101)*	3-4	General Education	2
Semester Total	16-17	Semester Total	17
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PHYS 2122 University Physics II	5	PHYS 4212 Analytical Mechanics II	3
PHYS 3211 Analytical Mechanics I	3	COMM 1000 Public Speaking	3
MATH 2153 Calculus & Analytical Geometry III	3	ECON 1010 Principles of Macroeconomics	3
ENGL 1030 Composition II	3	ENGL 2220 World Masterpieces	3
GRAP 1110 Fundamentals of Drafting	2	General Education	3
GRAP 1105 Basic AutoCAD	1	Modern Language Requirement***	3
Semester Total	17	Semester Total	18

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ECON 1011 Principles of Microeconomics	3	CS 1100 Computer Programming I	2
PHYS 4411 Thermodynamics	3	PHYS 3012 Electric Measurements Laboratory	3
General Education	6	PHYS 3311 Electric Circuit Theory	3
Modern Language Requirement***	3	MATH 3151 Differential Equations	3
Semester Total	15	General Education	6
		Semester Total	17

Cooperative Engineering 3-2, B.A. Degree – 100 hours (required at UCM)

- *Students whose high school preparation is inadequate should take PHYS 1101 during their Fall Semester at UCM, prior to enrollment in PHYS 2121.
- **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.
- ***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 Div. II C.
- Depending on intended area of specialization, students may want to consider taking one of the following courses: PHYS 3511, PHYS 3512, PHYS 3611, PHYS 4312, PHYS 4512, PHYS 4513, PHYS 4711.
- **Please Note:** To receive your physics degree from UCM, you must notify the Registrar's Office upon graduation from your engineering institution. At that time, UCM will process your physics degree certificate.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

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.

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 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 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 Maastricht Center for Transatlantic Studies in Maastricht, The Netherlands.

To Learn More

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

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

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

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 MAPP test 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 and Human Services
Department of Criminal Justice

Criminal Justice

BACHELOR OF SCIENCE DEGREE

The undergraduate criminal justice program at the University of Central Missouri 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 Bachelor of Science in Criminal Justice degree program is designed to provide students with the knowledge and training they need for career entry and advancement. Central Missouri's Department of Criminal Justice 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 Central Missouri 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 Department of Criminal Justice 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 Central Missouri'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, and it serves officials of education, business, government and industry who are recruiting prospective employees. Interviews are conducted on campus throughout the year.

Student Involvement

There are many ways for criminal justice students to become involved on the Central Missouri campus. The Department of Criminal Justice 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 2003-2009.

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/.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
CJ 2315 The Criminal Court System	3	CJ 3006 Corrections	3
CJ Major Elective	3	CJ Major Elective	3
General Education	9	Free Choice Electives	3
Semester Total	15	General Education	6
		Semester Total	15

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
SOC 3890 Criminology	3	CJ Major Elective	3
General Education	3	General Education (IGEN/ICAP)	3
Free Choice Electives	9	Free Choice Elective	9
Semester Total	15	Semester Total	15

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
CJ 3600 Introduction to CJ Research & Statistics	3	CJ 4605 Senior Seminar	3
CJ Major Elective	3	CJ Major Elective	3
Free Choice Electives	9	Free Choice Electives	9
Semester Total	15	Semester Total	15

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 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 MAPP test 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 and Human Services
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, write to Dianna Bryant, Institute for Rural Emergency Management, Humphreys 304, UCM, Warrensburg, MO 64093, or call 660-543-4971. The department's web address is www.ucmo.edu/irem and its email address is irem@ucmo.edu.

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

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs. 3 9-10 12-13 1</p>	<p>Freshman Year - Spring Semester ENGL 1030 Composition II General Education Semester Total</p>	<p>Hrs. 3 12 15</p>
<p>Sophomore Year - Fall Semester CDM 3000 Intro. to Crisis & Disaster Management General Education Semester Total</p>	<p>Hrs. 3 11-12 14-15</p>	<p>Sophomore Year - Spring Semester CHEM 1103 or 1104 Intro. to the Sci.: Chemistry General Education Free Choice Electives Semester Total</p>	<p>Hrs. 3-4 3 9 15-16</p>
<p>Junior Year - Fall Semester CDM 3400 Community Mitigation & Recovery SAFE 3015 or CDM 3225 or CDM 3715 Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 9 15</p>	<p>Junior Year - Spring Semester CDM 4200 Disaster Management Technology CDM 3035 or CDM 4245 or CDM 4745 Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 8 14</p>
<p>Summer - Between Junior & Senior Year CDM 4900 Technology Application Studies** CDM 4990 Practicum in CDM*** Semester Total</p>	<p>Hrs. 3 3 6</p>		
<p>Senior Year - Fall Semester CDM 4400 Research Issues in CDM CDM 4910 Field Exercise Project** General Education (IGEN/ICAP) Departmentally Approved Technical Elective Free Choice Elective Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>	<p>Senior Year - Spring Semester CDM 4800 Integrated Emergency Management CDM 40353 or SAFE 4215 or 4720 Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 7 13</p>

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.
- **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 MAPP test 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 and Human Services *Department of Health and Human Performance*

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 dietician, 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 registration 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 900 hours of supervised practice, and is completed in nine 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.

For More Information

To learn more about majoring in dietetics, contact the Department of Health and Human Performance at 660-543-4256, visit the web page at www.ucmo.edu/hhp/, or stop by our office in Humphreys 216.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester		Hrs.	Freshman Year - Spring Semester		Hrs.
D&N 1300 Introduction to Dietetics		1	CHEM 1104 Intro. to the Sciences: Chemistry		4
PSY 1100 General Psychology		3	SOC 1800 General Sociology		3
ENGL 1020 Composition I		3	General Education		6
General Education		9	ENGL 1030 Composition II		3
Semester Total		16	Semester Total		16
AE 1400 Freshman Seminar*		1			

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
FOOD 2322 Food Preparation		3	D&N 3340 Nutrition		3
BIOL 2401 Anatomy & Physiology I		4	BIOL 2402 Anatomy & Physiology II		4
ACCT 2100 Survey of Accounting		3	General Education		6
General Education		5	Free Choice Electives		2
Semester Total		15	Semester Total		15

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
FOOD 3332 Quantity Food Production & Service		3	FOOD 3334 Food Service Equipment & Purchasing		3
FOOD 3333 Food Systems Management		3	CHEM 1604 Elementary Organic & Biochemistry		4
BIOL 3611 Microbiology		4	HRM 3920 Human Resource Management		3
MGT 3315 Management of Organizations		3	Free Choice Electives		4
Free Choice Electives		2	Semester Total		14
Semester Total		15			

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
D&N 4340 Advanced Nutrition		3	D&N 3350 Community Nutrition		3
D&N 4342 Medical Nutrition I		3	D&N 4343 Medical Nutrition II		3
D&N 4345 Senior Dietetics Seminar		3	General Education		3
FOOD 4326 Experimental Foods		3	Free Choice Electives		5
PSY 4520 Statistics for the Behavioral Sciences		3	Semester Total		14
Semester Total		15			

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 "Dietetic Program in Dietetics Academic Requirements" of the American Dietetic Association.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology

Department of Biology and Earth Science

Earth Science

BACHELOR OF ARTS DEGREE

The earth science bachelor's degree at the University of Central Missouri is a detailed physical science program designed to provide students with a broad-based background in the Earth Sciences. The courses associated with the earth science degree are designed to emphasize interactions between the various branches of the earth sciences, to provide a practical working knowledge of the material, and to take advantage of opportunities for field-based exercises.

In this age of technological wizardry and space exploration, it's surprising how much we still have to learn about the ground on which we walk. Earth scientists explore the earth's structure, rocks, minerals, fossils and water. Some study the atmosphere and the production of weather, and the relationships of oceans to land. Others examine the effects of the environment on humans, and, more importantly, the effects of humans on the environment.

Earth science is a broad science, employing many skills learned in chemistry, physics, and biology.

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.

Career Opportunities

The Earth Sciences program prepares students for exciting careers in geology and other specialties. Students can develop a focus in any of a wide variety of areas such as emphasizing environmental issues, geologic hazards, water resources, global change, or traditional areas such as geology, geophysics, or

geochemistry.

The prospects for employment may be most favorable in the areas of environmental protection and reclamation. Earth scientists will be needed to help clean up contaminated sites in the United States and help private companies and government agencies comply with environmental regulations. Environmental scientists require at least a bachelor's degree, but employers usually prefer candidates with master's degrees, and a master's degree is required for most entry-level research positions in colleges and universities, federal agencies, and state geological surveys. A Ph.D. degree is necessary for most high-level research positions.

About the Faculty

Faculty members have practical experience in the areas of mining and mineral exploration, petroleum geology, environmental/engineering geology, hydrology, paleontology, and science education, and many of these experiences are brought to the classroom. 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, student organizations and the department's seminar series to add an extra dimension to the 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; 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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Earth Science Major, B.A. Degree (42-386)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
EASC 1004 Introduction to the Sciences: Geology	4	General Education	3
General Education	3	EASC 2200 Historical Geology	4
Modern Language Requirement**	3	General Education	3
Semester Total	13	Modern Language Requirement**	3
AE 1400 Freshman Seminar*	1	Semester Total	16

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
EASC 3010 Environmental Geology	3	EASC 3110 Structural Geology	4
General Education	8	General Education	9
Modern Language Requirement**	3	Minor Coursework	3
Semester Total	14	Semester Total	16

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
EASC Elective	3	EASC 3320 Mineralogy	4
General Education	3	EASC Elective	4
Minor Coursework	6	Minor Coursework	6
Free Choice Electives	4	General Education	3
Semester Total	16	Semester Total	17

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
EASC 3501 Invertebrate Paleontology	4	EASC Electives	6
GEOG 4210 or GEOG 4220 or AGRI 2330	3	Minor Coursework	3
General Education	3	Free Choice Electives	7
Minor Coursework	3	Semester Total	16
Free Choice Electives	3		
Semester Total	16		

Earth Science Major, B.A. Degree - 124 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.
- **Refer to the catalog for the B.A. Degree Modern Languages requirements. This plan is based on 9 hours of modern language.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend 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 MAPP test 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 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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Earth Science Major, B.S. in Ed. Degree (41-280)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester EASC 1004 Intro. to the Sciences: Geology BIOL 1112 Animal Biology ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*	Hrs 4 4 3 3 14 1	Freshman Year -Spring Semester EASC 2200 Historical Geology General Education MATH ENGL 1030 Composition II CTE 2000 Technology & Society General Education Semester Total	Hrs 4 3 3 3 3 16
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Sophomore Year - Fall Semester EASC 3320 Mineralogy EASC 3114 Meteorology CHEM 1131 General Chemistry I POLS 1510 American Government General Education Semester Total	Hrs 4 3 5 3 3 18	Sophomore Year - Spring Semester EASC 3112 Astronomy Major Elective** EDFL 2100 Foundations of Ed. and Field Exp. EDFL 2150 Introductory Field Experience EDFL 2240 Educational Psychology HIST 1350 or HIST 1351 U.S. History Semester Total	Hrs 3 3-4 2 1 3 3 15-16
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Junior Year - Fall Semester EASC 3010 Environmental Geology EASC 3115 Oceanography*** PHYS 1101 College Physics I or PHYS 1104 Intro. to the Sciences: Physics or PHYS 2121 University Physics EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Child Major Elective** Semester Total	Hrs 3 3 - 4-5 2 3 15-16	Junior Year - Spring Semester BIOL 4102 Evolution PSY 4230 Psychology of Adolescence EDFL 4210 Teaching Reading in Secondary EDFL 4300 Ed. Measurement & Evaluation General Education Major Elective** Semester Total	Hrs 3 3 2 2 3 3 16
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Senior Year - Fall Semester EASC 3501 Invertebrate Paleontology*** EASC 4050 Science Teaching Methods EDFL 3500 Sec. Teaching & Behavioral Mgt. FLDX 3550 Practicum in Secondary Instruction General Education Semester Total	Hrs 4 3 3 1 6 17	Senior Year - Spring Semester BIOL 4080 Teaching Secondary Science FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total	Hrs 3 5 4 12
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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 2009 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 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.



College of Science and Technology

Department of Biology and Earth Science

Earth Science

BACHELOR OF SCIENCE IN EDUCATION DEGREE WITH UNIFIED SCIENCE CERTIFICATION

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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Earth Science Major, B.S. in Ed. Degree with Unified Science Certification (41-280)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
<i>EASC 1004 Intro. to Science: Geology</i>	4	EASC 2200 Historical Geology	4
BIOL 1112 Animal Biology	4	BIOL 1111 Plant Biology	4
<i>ENGL 1020 Composition I</i>	3	<i>General Education MATH</i>	3
General Education	3	<i>ENGL 1030 Composition II</i>	3
Semester Total	14	CTE 2000 Technology & Society	3
		Semester Total	17

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EASC 3320 Mineralogy	4	EASC 3112 Astronomy	3
EASC 3114 Meteorology	3	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I	5	EDFL 2100 Foundations of Education	2
<i>POLS 1510 American Government</i>	3	FLDX 2150 Introductory Field Experience	1
General Education	3	EDFL 2240 Educational Psychology	3
Semester Total	18	HIST 1350 or HIST 1351 U.S. History	3
		Semester Total	17

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
EASC 3010 Environmental Geology	3	BIOL 4102 Evolution	3
EASC 3115 Oceanography*	3	PHYS 1102 College Physics II or PHYS 2122 University Physics II	4-5
PHYS 1101 College Physics I or PHYS 2121 University Physics I	4-5	PSY 4230 Psychology of Adolescence	2
EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Child	4-5	EDFL 4210 Teaching Reading in Secondary	3
General Education	2	EDFL 4300 Educ. Measurement & Evaluation	3
Semester Total	3	General Education	3
	15-16	Semester Total	17-18

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
EASC 3501 Invertebrate Paleontology*	4	BIOL 4080 Teaching Secondary Science	3
EASC 4050 Science Teaching Methods	3	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Mgt.	3	ICAP 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	Semester Total	12
General Education	6		
Semester Total	17		

Earth Science Major, B.S. in Ed. Degree with Unified Science Certification - 127-129 hours

- *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 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.



Harmon College of Business Administration

Department of Economics and Finance

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 and Finance sponsors the Economics Club, which hosts on-campus speakers in economics and sponsors off-campus trips to agencies such as the Federal Reserve Bank of Kansas City and the Kansas City Board of Trade.

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 and Finance, UCM, Warrensburg, MO 64093 at 660-543-4246.

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu. The department's web address is www.ucmo.edu/econ.

University of Central Missouri • Four-Year Academic Guide

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

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

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

Economics Major, B.A. Degree - 124 Hours

- *AE 1400 or BADM 1400 (1 hr.) are highly recommended for academic success. AE 1400 or BADM 1400 are a free choice elective.
- **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 – 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 MAPP test 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 Administration
Department of Economics and Finance

Economics

BACHELOR OF SCIENCE 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 Science in 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.

The technical nature of this program is ideal for students interested in ultimately pursuing a graduate degree or an economic analyst position. Through careful selection of a minor program of study, students can structure their economics education to target a large variety of employment opportunities.

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 and Finance sponsors the Economics and Finance Club, which regularly hosts on-campus speakers in economics and finance and off-campus trips to agencies such as the Federal Reserve Bank of Kansas City and the Kansas City Board of Trade.

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 and Finance, UCM, Warrensburg, MO 64093 or call 660-543-4246.

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu. The department's web address is www.ucmo.edu/econ.

University of Central Missouri • Four-Year Academic Guide

Economics Major, B.S. Degree (43-537)

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Freshman Year - Fall Semester ECON 1010 Principles of Macroeconomics ENGL 1020 Composition I MATH 1111 College Algebra General Education Semester Total AE 1400 or BADM 1400 Freshman Seminar*	Hrs. 3 3 3 6 15 1	Freshman Year - Spring Semester ECON 1011 Principles of Microeconomics COMM 1000 Public Speaking POLS 1510 American Government ENGL 1030 Composition II BTE 1210 Essentials of Managing Information General Education Semester Total	Hrs. 3 3 3 2 3 3 17
Sophomore Year - Fall Semester ECON 2010 Orientation to Economics (Fall only) General Education CIS 1605 Business Application Software Semester Total	Hrs. 2 13 2 17	Sophomore Year - Spring Semester FIN 2801 Business Statistics I General Education Coursework for Minor Free Choice Elective Semester Total	Hrs. 3 3 6 3 15
Junior Year - Fall Semester ECON 3010 Intermed. Macroeconomics (Fall only) ECON 3065 Labor Economics (Fall only) FIN 3801 Business Statistics II Coursework for Minor Semester Total	Hrs. 3 3 3 6 15	Junior Year - Spring Semester ECON 3030 Intermediate Microeconomics MGT 3360 Production/Operations Management Coursework for Minor ECON Elective** Semester Total	Hrs. 3 3 6 3 15
Senior Year - Fall Semester ECON 4000 Portfolio Assessment ECON 4080 Econometrics I (Fall only) Coursework for Minor Free Choice Electives Semester Total	Hrs. 1 3 6 5 15	Senior Year - Spring Semester General Education (IGEN) ECON 4060 Game Theory Appl. (Spring only) ECON 4065 Managerial Economics (Spring only) ECON 4075 Time Series Analysis (Spring only) Free Choice Elective Semester Total	Hrs. 3 3 3 3 3 15

Economics Major, B.S. Degree - 124 Hours

- *AE 1400 or BADM 1400 (1 hr.) are highly recommended for academic success. AE 1400 or BADM 1400 are a free choice elective.
- ** If ECON 1010 is taken as part of General Education, an ECON elective is required in the major.
- Some ECON classes are offered fall or spring semester only – check with the department for course offerings.
- The above degree program is based on a 24-hour minor. Number of free choice electives will vary with minor choice.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 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 National Association for Industrial Technology (NAIT).

Student Involvement

A student group of the National Association for Industrial Technology (NAIT) 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, or call 1-660-543-4439. The school's web address is 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.

University of Central Missouri • Four-Year Academic Guide

Electronics Technology Major (Area 1 Electrical/Electronic CT), B.S. Degree (43-221)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>ET 1026 DC Circuit Analysis* ET 1050 Digital Principles & Applications* MATH 1111 College Algebra ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar**</p>	<p>Hrs.</p> <p>4 4 3 3 2-3 16-17 1</p>	<p>Freshman Year - Spring Semester</p> <p>ET 1027 AC Circuit Analysis* ET 2048 Active Electronic Devices* TECH 1042 Technical Mathematics II ENGL 1030 Composition II Semester Total</p>	<p>Hrs.</p> <p>4 4 3 3 14</p>
<p>Sophomore Year - Fall Semester</p> <p>ET 2060 Microprocessors: Theory & Applications* ET 3020 Circuit Analysis & Implementation* TECH 2040 Calculus for Technology CHEM 1104 Intro. to the Sciences: Chemistry Semester Total</p>	<p>Hrs.</p> <p>4 4 3 4 15</p>	<p>Sophomore Year - Spring Semester</p> <p>ET 2065 Computer Prog. for Electronic Technology* ET 3014 Analog-Digital Circuitry* PHYS 1104 Introduction to the Sciences: Physics COMM 1000 Public Speaking Semester Total</p>	<p>Hrs.</p> <p>4 4 4 3 15</p>
<p>Junior Year - Fall Semester</p> <p>CTE 3060 Technical Writing ET 3041 Communication Systems* MGT 3315 Management of Organizations or INDM 4210 Industrial Management ET 3017 Industrial Electronics* Semester Total</p>	<p>Hrs.</p> <p>3 4 3 4 14</p>	<p>Junior Year - Spring Semester</p> <p>IGEN 3116 or ICAP 4110 General Education Departmentally Approved Area 1 Electives*** Semester Total</p>	<p>Hrs.</p> <p>3 9 3 15</p>
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology Semester Total</p>	<p>Hrs.</p> <p>3 3</p>		
<p>Senior Year - Fall Semester</p> <p>General Education Management Elective# Departmentally Approved Area 1 Elective*** Semester Total</p>	<p>Hrs.</p> <p>9 3 3 15</p>	<p>Senior Year - Spring Semester</p> <p>Departmentally Approved Area 1 Elective*** General Education Free Choice Electives Semester Total</p>	<p>Hrs.</p> <p>5 6 2 13</p>

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 MAPP test 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 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 National Association for Industrial Technology (NAIT).

Student Involvement

A student group of the National Association for Industrial Technology (NAIT) 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, or call 1-660-543-4439. The school's web address is 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.

University of Central Missouri • Four-Year Academic Guide

Electronics Technology Major (Area 2 Computer/Networking ET) B.S. Degree (43-221)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>ET 1026 DC Circuit Analysis* ET 1050 Digital Principles & Applications* MATH 1111 College Algebra ENGL 1020 Composition I Semester Total AE 1400 Freshman Seminar**</p>	<p>Hrs.</p> <p>4 4 3 3 14 1</p>	<p>Freshman Year - Spring Semester</p> <p>ET 1027 AC Circuit Analysis* ET 2048 Active Electronic Devices* ENGL 1030 Composition II NET 2058 Computer Technologies* General Education Semester Total</p>	<p>Hrs.</p> <p>4 4 3 3 2-3 16-17</p>
<p>Sophomore Year - Fall Semester</p> <p>ET 2060 Microprocessors: Theory & Applications* NET 1060 Introduction to Networking Basics* NET 1061 Routers & Routing Basics* CHEM 1104 Intro. to the Sciences: Chemistry Semester Total</p>	<p>Hrs.</p> <p>4 3 3 4 14</p>	<p>Sophomore Year - Spring Semester</p> <p>ET 2065 Computer Prog. For Electronics Tech.* NET 2060 Switching Basics and Inter. Routing* NET 2061 WAN Technologies* COMM 1000 Public Speaking PHYS 1104 Introduction to the Sciences: Physics Semester Total</p>	<p>Hrs.</p> <p>4 3 3 3 4 17</p>
<p>Junior Year - Fall Semester</p> <p>NET 4060 Advanced Network Routing* CTE 3060 Technical Writing Area 2 Major Elective*** General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 6 15</p>	<p>Junior Year - Spring Semester</p> <p>NET 4061 Remote Access* Area 2 Major Elective*** IGEN 3116 or ICAP 4110 General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 6 15</p>
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology Semester Total</p>	<p>Hrs.</p> <p>3 3</p>		
<p>Senior Year - Fall Semester</p> <p>NET 4062 Advanced Switching* Area 2 Major Elective*** General Education Free Choice Elective Semester Total</p>	<p>Hrs.</p> <p>3 3 6 2 14</p>	<p>Senior Year - Spring Semester</p> <p>NET 4063 Networking Support* Departmentally Approved Elective# General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 6 12</p>

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 MAPP test 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 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 is available to all education students.

Specialized organizations, the Association of Childhood Education International, and the Student Reading Council of the International Reading 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 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 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/cehs/currinst/.

University of Central Missouri • Four-Year Academic Guide

Elementary Education Major (Birth - Grade 3), B.S. in Ed. Degree (41-286)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p><i>ENGL 1020 Composition I</i> COMM 1000 Public Speaking <i>POLS 1510 American Government</i> ART 1800 Ideas & the Visual Arts or MUS 1210 Experiencing Music Modern Language</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>15</p>	<p>Freshman Year - Spring Semester</p> <p><i>ENGL 1030 Composition II</i> HIST 1350 or 1351 U.S. History <i>MATH 1620 Contemporary Math</i> <i>General Education Science</i> General Education Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>4</p> <p>2-3</p> <p>15-16</p>
<p>Sophomore Year - Fall Semester</p> <p>EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology ECEL 2310 Computer/Technology in Education CFD 1220 Child Development MATH 1800 Introduction to Elem. & M.S. Math MATH 2801 Conc. & Meth. in Elem. School Math</p> <p>Semester Total</p>	<p>Hrs.</p> <p>2</p> <p>1</p> <p>3</p> <p>2</p> <p>3</p> <p>2</p> <p>3</p> <p>16</p>	<p>Sophomore Year - Spring Semester</p> <p>ECEL 1310 or 1320 Science for Teachers EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Children ECEL 2830 Early Childhood Principles CD 2000 Bases of Speech & Language General Education Literature EDFL 3210 Methods of Reading Instruction PE 2410 Movement Skills & Activities for Pri. Grad.</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>2</p> <p>3</p> <p>2</p> <p>3</p> <p>3</p> <p>2</p> <p>18</p>
<p>Junior Year - Fall Semester</p> <p>GEOG 2212 World Geography ECEL 3260 Practicum in Child Development ECEL 3850 Development & Learning Through Play ECEL 2110 World Diversity & America ECEL 3220 The Teaching of Language Arts EDFL 3410 Children's Literature D&N 2310 Early Childhood Nutrition & Health</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>1</p> <p>3</p> <p>3</p> <p>3</p> <p>2</p> <p>2</p> <p>17</p>	<p>Junior Year - Spring Semester</p> <p>ECEL 3420 Teaching Social Studies & Economics PSY 2220 Child Psy. or PSY 3220 Lifespan Dev. MUS 3301 Music for Elementary Schools EDSP 3150 Community & Family Resources EDSP 3151 Practicum in Comm. & Family Res. EDSP 4370 Screening, Diag., & Pres. Instructions HED 3310 Methods in Elementary School Health ART 3910 Art for Elementary Schools</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>2</p> <p>2</p> <p>1</p> <p>3</p> <p>2</p> <p>2</p> <p>18</p>
<p>Senior Year - Fall Semester</p> <p>IGEN 3468 Community, School, & Family Conn. CFD 3250 Org. & Admin. of Prog. for Yng. Children ECEL 4350 Elemen. Science Teaching Strategies ECEL 4400 Classroom Management & Interactions ECEL 4830 Early Childhood Curriculum HED 4330 First Aid and CPR for Educators</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>1</p> <p>16</p>	<p>Senior Year - Spring Semester</p> <p>FLDX 4493 Student Teaching Early Childhood FLDX 4496 Student Teaching Elementary II</p> <p>Semester Total</p>	<p>Hrs.</p> <p>6</p> <p>6</p> <p>12</p>

Elementary Education Major (Birth - Grade 3), B.S. in Ed. Degree - 127 hours

- 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 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.



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/cehs/currinst/.

University of Central Missouri • Four-Year Academic Guide

Elementary Education Major (Grades 1 - 6), B.S. in Ed. Degree (41-285)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p><i>ENGL 1020 Composition I</i> 3</p> <p>COMM 1000 Public Speaking 3</p> <p><i>POLS 1510 American Government</i> 3</p> <p>ART 1800 Ideas & the Visual Arts or MUS 1210 Experiencing Music 3</p> <p>Modern Language 3</p> <p>Semester Total 15</p>	<p>Freshman Year - Spring Semester</p> <p><i>ENGL 1030 Composition II</i> 3</p> <p><i>HIST 1350 or 1351 U.S. History</i> 3</p> <p><i>MATH 1620 Contemporary Math</i> 3</p> <p><i>General Education Science w/lab</i> 4</p> <p>General Education Technology 2-3</p> <p>Semester Total 15-16</p>
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<p>Sophomore Year - Fall Semester</p> <p>EDFL 2100 Foundations of Education 2</p> <p>FLDX 2150 Introductory Field Experience 1</p> <p>EDFL 2240 Educational Psychology 3</p> <p>ECEL 2310 Computer/Technology in Education 2</p> <p>PE 3420 Elementary School PE Activities 2</p> <p>MATH 1800 Intro. to Elementary & M.S. Math 2</p> <p>MATH 2801 Concepts & Meth. Elementary Math* 3</p> <p>Teaching area of concentration** 3</p> <p>Semester Total 18</p>	<p>Sophomore Year - Spring Semester</p> <p>EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Children 2</p> <p>GEOG 2212 World Geography 3</p> <p>ECEL 1310 or 1320 Science for Teachers 3</p> <p>General Education Literature 3</p> <p>EDFL 3210 Methods of Reading Instruction 3</p> <p>Teaching area of concentration** 3</p> <p>Semester Total 17</p>
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<p>Junior Year - Fall Semester</p> <p>ECEL 2110 World Diversity & America 3</p> <p>ECEL 3220 The Teaching of Language Arts 3</p> <p>EDFL 3215 Reading in the Content Fields 3</p> <p>EDFL 3410 Children's Literature 2</p> <p>Teaching area of concentration** 6</p> <p>Semester Total 17</p>	<p>Junior Year - Spring Semester</p> <p>ECEL 3420 Teaching Social Studies & Economics 3</p> <p>ART 3910 Art for Elementary School 2</p> <p>MUS 3301 Music for Elementary School 2</p> <p>PSY 2220 Child Psy. or PSY 3220 Lifespan Dev. 3</p> <p>HED 3310 Methods in Elementary School Health 2</p> <p>Teaching area of concentration** 6</p> <p>Semester Total 18</p>
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<p>Senior Year - Fall Semester</p> <p>EDFL 4220 Analysis & Correction of Reading Dis. 2</p> <p>EDFL 4250 Practicum in Reading 1</p> <p>EDFL 4400 Classroom Management & Interactions 3</p> <p>ECEL 4350 Elementary Science Teaching Strat. 3</p> <p>HED 4330 First Aid & CPR for Educators 1</p> <p>IGEN 3468 Community, School, and Family Conn. 3</p> <p>Teaching area of concentration** 3</p> <p>Semester Total 16</p>	<p>Senior Year - Spring Semester</p> <p>FLDX 4495 Student Teaching Elementary I 6</p> <p>FLDX 4496 Student Teaching Elementary II 6</p> <p>Semester Total 12</p>
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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, Early Childhood, English, Family and Consumer Sciences, French, German, Health Education, Instructional Technology, Mathematics, Science, Social Studies, Spanish, 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 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 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.



UNIVERSITY OF
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College of 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 National Association of Industrial Technology (NAIT) 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, 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.

University of Central Missouri • Four-Year Academic Guide

Engineering Technology, Option 1 (Electronics Engineering Technology) B.S. Degree (43-282)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>ET 1026 DC Circuit Analysis* ET 1050 Digital Principles & Applications* MATH 1112 College Trigonometry ENGL 1020 Composition I ENGT 1500 Orientation to Engineering Technology* GRAP 1105 Basic AutoCAD CTE 1300 Intro. to Engineering Design (3) or GRAP 1110 Fundamentals of Drafting (2)</p> <p>Semester Total</p>	<p>Hrs.</p> <p>4 4 2 3 1 1 2-3</p> <p>17-18</p>	<p>Freshman Year - Spring Semester</p> <p>ET 1027 AC Circuit Analysis* ET 2048 Active Electronic Devices* ECON 1010 Principles of Macroeconomics ENGL 1030 Composition II ENGT 1000 Principles of Engineering</p> <p>Semester Total</p>	<p>Hrs.</p> <p>4 4 3 3 3 17</p>
<p>Sophomore Year - Fall Semester</p> <p>MATH 1131 Applied Calculus PHYS 1104 Introduction to the Sciences: Physics ENGT 1012 Global Production Technology ENGT 1501 Seminar in Engineering Technology ET 2060 Microprocessors: Theory & Applications General Education</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 4 2 .5 4 3</p> <p>16.5</p>	<p>Sophomore Year - Spring Semester</p> <p>CHEM 1103 Intro. to the Sciences: Chemistry General Education ET 2065 Computer Programming for Elec. Tech.* EET 2330 Transform Analysis ENGT 1501 Seminar in Engineering Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 6 4 3 .5 16.5</p>
<p>Junior Year - Fall Semester</p> <p>CTE 3060 Technical Writing ET 3017 Industrial Electronics* General Education ENGT 1501 Seminar in Engineering Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 4 6 .5</p> <p>13.5</p>	<p>Junior Year - Spring Semester</p> <p>ENGT 3520 Engineering Economy ET 3014 Analog-Digital Circuitry* EET 3034 Electronic Instruments & Measurement* EET 3048 Control of Electrical Machinery ENGT 1501 Seminar in Engineering Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 4 4 4 .5 15.5</p>
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology</p>	<p>Hrs.</p> <p>2</p> <p>2</p>		
<p>Senior Year - Fall Semester</p> <p>ET 3020 Circuit Analysis & Implementation* ET 3041 Communication Systems* General Education COMM 3010 Interpersonal Communication</p> <p>Semester Total</p>	<p>Hrs.</p> <p>4 4 3 3</p> <p>14</p>	<p>Senior Year - Spring Semester</p> <p>ICAP 4110 Industrial Problem Solving INDM 4260 Organizational Dynamics General Education MGMT 4580 Quality Systems</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 12</p>

Engineering Technology, Option 1 (Electronics Engineering Technology) B.S. Degree - 124 hours

- *This class is only offered during the semester indicated.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 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 National Association of Industrial Technology (NAIT) 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, 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.

University of Central Missouri • Four-Year Academic Guide

Engineering Technology, Option 2 (Mech. Eng. Tech. - Product Design) B.S. Degree (43-282)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>ET 1010 Applied Electricity* 4</p> <p>ET 1050 Digital Principles & Applications* 4</p> <p>GRAP 1105 Basic AutoCAD 1</p> <p>MATH 1112 College Trigonometry 2</p> <p>ENGL 1020 Composition I 3</p> <p>ENGT 1500 Orientation to Engineering Technology* 1</p> <p>CTE 1300 Intro. to Engineering Design (3) or GRAP 1110 Fundamentals of Drafting (2) 2-3</p> <p>Semester Total 17-18</p>	<p>Hrs.</p>	<p>Freshman Year - Spring Semester</p> <p>GRAP 1120 Machine Drafting* 3</p> <p>GRAP 2170 Intro. to Computer-Aided Drafting 2</p> <p>ECON 1010 Principles of Macroeconomics 3</p> <p>MATH 1131 Applied Calculus 3</p> <p>ENGL 1030 Composition II 3</p> <p>ENGT 1000 Principles of Engineering 3</p> <p>Semester Total 17</p>	<p>Hrs.</p>
<p>Sophomore Year - Fall Semester</p> <p>ENGT 1510 Intro. to Manufacturing Processes* 3</p> <p>PHYS 1104 Introduction to the Sciences: Physics 4</p> <p>ENGT 1501 Seminar in Engineering Technology CMGT 2020 Mechanics of Materials 0.5</p> <p>General Education 3</p> <p>ENGT 2530 Machine Tool Technology 3</p> <p>Semester Total 16.5</p>	<p>Hrs.</p>	<p>Sophomore Year - Spring Semester</p> <p>CHEM 1103 Intro. to the Sciences: Chemistry 3</p> <p>General Education 3</p> <p>CTE 3060 Technical Writing 3</p> <p>ENGT 1012 Global Production Technology 2</p> <p>ENGT 2040 Engineering Materials Science 4</p> <p>ENGT 1501 Seminar in Engineering Technology 0.5</p> <p>Semester Total 15.5</p>	<p>Hrs.</p>
<p>Junior Year - Fall Semester</p> <p>GRAP 3124 Production Design Drafting 3</p> <p>GRAP 4170 CAD & Design for Engin. Technology CMGT 3020 Applied Strength of Materials 3</p> <p>General Education 6</p> <p>ENGT 1501 Seminar in Engineering Technology 0.5</p> <p>Semester Total 15.5</p>	<p>Hrs.</p>	<p>Junior Year - Spring Semester</p> <p>GRAP 3126 Machine Design* 3</p> <p>ENGT 3520 Engineering Economy 3</p> <p>EET 3034 Electronic Instruments & Measurements* 4</p> <p>GRAP 4124 Geometric Dim. & Tol. for Eng. Tech.* 2</p> <p>General Education 3</p> <p>ENGT 1501 Seminar in Engineering Technology 0.5</p> <p>Semester Total 15.5</p>	<p>Hrs.</p>
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology 2</p> <p>Semester Total 2</p>	<p>Hrs.</p>		
<p>Senior Year - Fall Semester</p> <p>PR&T 4032 Hydraulics & Pneumatics 3</p> <p>GRAP 4175 Adv. 3D Analysis & Prototyping for ET 3</p> <p>General Education 3</p> <p>COMM 3010 Interpersonal Communication 3</p> <p>Departmentally Approved Major Elective** 1</p> <p>Semester Total 13</p>	<p>Hrs.</p>	<p>Senior Year - Spring Semester</p> <p>ICAP 4110 Industrial Problem Solving 3</p> <p>INDM 4260 Organizational Dynamics 3</p> <p>General Education 3</p> <p>MMGT 4580 Quality Systems 3</p> <p>Semester Total 12</p>	<p>Hrs.</p>

Engineering Technology, Option 2 (Mechanical Eng. Tech. - Product Design) B.S. Degree - 124 hours

- *This class is only offered during the semester indicated.
- **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 MAPP test 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 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 National Association of Industrial Technology (NAIT) 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, 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.

University of Central Missouri • Four-Year Academic Guide

Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree (43-282)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>ET 1010 Applied Electricity* 4</p> <p>ET 1050 Digital Principles & Applications* 4</p> <p>GRAP 1105 Basic AutoCAD 1</p> <p>MATH 1112 College Trigonometry 2</p> <p>ENGL 1020 Composition I 3</p> <p>ENGT 1500 Orientation to Engineering Technology* 1</p> <p>CTE 1300 Intro. To Engineering Design (3) or GRAP 1110 Fundamentals of Drafting (2) 2-3</p> <p>Semester Total 17-18</p>	Hrs.	<p>Freshman Year - Spring Semester</p> <p>ENGT 2040 Engineering Materials Science 4</p> <p>ECON 1010 Principles of Macroeconomics 3</p> <p>ENGL 1030 Composition II 3</p> <p>ENGT 1000 Principles of Engineering 3</p> <p>MATH 1131 Applied Calculus 3</p> <p>Semester Total 16</p>	Hrs.
<p>Sophomore Year - Fall Semester</p> <p>PHYS 1104 Introduction to the Science: Physics 4</p> <p>ENGT 1012 Global Production Technology 2</p> <p>ENGT 1501 Seminar in Engineering Technology ENGT 3510 Engineering Planning & Control* .5</p> <p>General Education 3</p> <p>ENGT 2530 Machine Tool Technology 3</p> <p>Semester Total 15.5</p>	Hrs.	<p>Sophomore Year - Spring Semester</p> <p>CHEM 1103 Intro. to the Sciences: Chemistry 3</p> <p>General Education 3</p> <p>EET 3034 Electronic Instruments & Measurement ENGT 3530 Inspection & Quality Control* 4</p> <p>ENGT 3562 Computer Numerical Control* 3</p> <p>ENGT 1501 Seminar in Engineering Technology .5</p> <p>Semester Total 16.5</p>	Hrs.
<p>Junior Year - Fall Semester</p> <p>PR&T 4032 Hydraulics & Pneumatics 3</p> <p>CTE 3060 Technical Writing 3</p> <p>MMGT 4520 Robotics & Automation* 3</p> <p>INDM 4280 Industrial Statistics or SAFE 4940 Stat. Analysis for Risk Management 3</p> <p>INDM 4240 Facilities Engineering 3</p> <p>ENGT 1501 Seminar in Engineering Technology .5</p> <p>Semester Total 15.5</p>	Hrs.	<p>Junior Year - Spring Semester</p> <p>INDM 4220 Human Factors Engineering 3</p> <p>ENGT 3520 Engineering Economy 3</p> <p>General Education 9</p> <p>ENGT 1501 Seminar in Engineering Technology .5</p> <p>Semester Total 15.5</p>	Hrs.
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology 2</p> <p>Semester Total 2</p>	Hrs.		
<p>Senior Year - Fall Semester</p> <p>ENGT 4550 Simulation in Engineering Technology* 3</p> <p>MMGT 4590 Computer Integrated Manufacturing* 3</p> <p>General Education 3</p> <p>COMM 3010 Interpersonal Communication 3</p> <p>Major option elective** 2</p> <p>Semester Total 14</p>	Hrs.	<p>Senior Year - Spring Semester</p> <p>ICAP 4110 Industrial Problem Solving 3</p> <p>INDM 4260 Organizational Dynamics 3</p> <p>General Education 3</p> <p>MMGT 4580 Quality Systems 3</p> <p>Semester Total 12</p>	Hrs.

Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree – 124 hours

- *This class is only offered during the semester indicated.
- **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 MAPP test 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.



UNIVERSITY OF
CENTRAL
MISSOURI

College of 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 National Association of Industrial Technology (NAIT) 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, 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.

University of Central Missouri • Four-Year Academic Guide

Engineering Technology, Option 4 (Manufacturing Engineering Tech.) B.S. Degree (43-282)

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<p>Freshman Year - Fall Semester</p> <p>ET 1010 Applied Electricity* ET 1050 Digital Principles & Applications* GRAP 1105 Basic AutoCAD MATH 1112 College Trigonometry ENGL 1020 Composition I ENGT 1500 Orientation to Engineering Technology* CTE 1300 Intro. to Engineering Design (3) or GRAP 1110 Fundamentals of Drafting (2)</p> <p>Semester Total</p>	<p>Hrs.</p> <p>4 4 1 2 3 1 2-3 17-18</p>	<p>Freshman Year - Spring Semester</p> <p>GRAP 1120 Machine Drafting* GRAP 2170 Intro. to Computer-Aided Drafting ECON 1010 Principles of Macroeconomics ENGL 1030 Composition II MATH 1131 Applied Calculus ENGT 1000 Principles of Engineering</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 2 3 3 3 3 17</p>
<p>Sophomore Year - Fall Semester</p> <p>ENGT 1510 Intro. to Manufacturing Processes PHYS 1104 Introduction to the Sciences: Physics ENGT 1012 Global Production Technology ENGT 1501 Seminar in Engineering Technology ENGT 2040 Engineering Material Sciences General Education</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 4 2 .5 4 3 16.5</p>	<p>Sophomore Year - Spring Semester</p> <p>CHEM 1103 Intro. to the Sciences: Chemistry ENGT 2530 Machine Tool Technology General Education ENGT 2515 Applied Manufacturing Processes* ENGT 3562 Computer Numerical Control* ENGT 1501 Seminar in Engineering Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 .5 15.5</p>
<p>Junior Year - Fall Semester</p> <p>CTE 3060 Technical Writing Departmentally Approved Major Elective** PR&T 4032 Hydraulics & Pneumatics General Education ENGT 1501 Seminar in Engineering Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 1 3 6 .5 13.5</p>	<p>Junior Year - Spring Semester</p> <p>EET 3034 Electronic Instruments & Measurement* ENGT 3520 Engineering Economy ENGT 3530 Inspection & Quality Control* General Education GRAP 4124 GD&T for Engineering Technology* ENGT 1501 Seminar in Engineering Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>4 3 3 3 2 0.5 15.5</p>
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology</p> <p>Semester Total</p>	<p>Hrs.</p> <p>2 2</p>		
<p>Senior Year - Fall Semester</p> <p>GRAP 4170 CAD & Design for Eng. Technology MGMT 4520 Robotics & Automation* MGMT 4590 Computer Integrated Manufacturing* General Education COMM 3010 Interpersonal Communication</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>	<p>Senior Year - Spring Semester</p> <p>ICAP 4110 Industrial Problem Solving INDM 4260 Organizational Dynamics General Education MGMT 4580 Quality Systems</p> <p>Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 12</p>

Engineering Technology, Option 4 (Manufacturing Engineering Technology) B.S. Degree - 124 hours

- *This class is only offered during the semester indicated.
- **See department advisor for a listing of approved elective courses within the major.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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/, 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.

University of Central Missouri • Four-Year Academic Guide

English Major, B.A. Degree (42-303)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	9	General Education	9
Modern Language Requirement*	3	Modern Language Requirement*	3
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ENGL 2210 or 2215 British Literature	3	ENGL 2220 World Masterpieces*	3
General Education	9	ENGL 2200 or 2205 American Literature	3
Free Choice Elective	3	General Education	9-10
Semester Total	15	Semester Total	15-16
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
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
Semester Total	15	Free Choice Elective	3
		Semester Total	18
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ENGL British Literature A or B Elective***	3	Upper-Level ENGL Electives	6
ENGL American Lit. A or B Elective***	3	Minor Coursework	6
Upper-Level ENGL Elective	3	Free Choice Elective	3
Minor Coursework	3	Semester Total	15
ICAP 4240 Literature and Its Discourses	3		
Semester Total	15		

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 MAPP test 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/.

For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's web site is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

English Education Major, B.S. in Ed. Degree (41-311)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p><i>ENGL 1020 Composition I</i> General Education Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs 3 12 15 1</p>	<p>Freshman Year - Spring Semester</p> <p><i>ENGL 1030 Composition II</i> <i>POLS 1510 American Government</i> <i>General Education Math</i> General Education Semester Total</p>	<p>Hrs 3 3 3 6 15</p>
<p>Sophomore Year - Fall Semester</p> <p>ENGL 2210 or 2215 British Literature ENGL 2830 Literature for Adolescents EDFL 2240 Educational Psychology EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience <i>General Education Science w/lab</i> Semester Total</p>	<p>Hrs 3 3 3 2 1 4 16</p>	<p>Sophomore Year - Spring Semester</p> <p>ENGL 2200 or 2205 American Literature ENGL 2220 World Masterpieces (General Ed.) ENGL 3120 History of the English Language PSY 4230 Psychology of Adolescence <i>HIST 1350 or 1351 U.S. History</i> Semester Total</p>	<p>Hrs 3 3 3 3 3 15</p>
<p>Junior Year - Fall Semester</p> <p>ENGL 3110 English Grammar ENGL 3240 Critical Approaches to Literature EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of the Exceptional Child Upper-Level American Literature** General Education Free Choice Electives Semester Total</p>	<p>Hrs 3 3 2 3 2-3 1-2 15</p>	<p>Junior Year - Spring Semester</p> <p>ENGL 3040 Advanced Rhetoric Upper-Level American Literature** Upper-Level British Literature** EDFL 4210 Teaching Reading in Secondary School Upper-Level English Elective Semester Total</p>	<p>Hrs 3 3 3 2 6 17</p>
<p>Senior Year - Fall Semester</p> <p>ENGL 4840 Composition & Evaluation EDFL 3500 Secondary Teaching & Behavioral Mgmt. FLDX 3550 Practicum in Secondary Instruction ENGL 4360 Shakespeare Upper-Level British Literature** EDFL 4300 Educational Measurement & Evaluation Semester Total</p>	<p>Hrs 3 3 1 3 3 2 15</p>	<p>Senior Year - Spring Semester</p> <p>ENGL 4820 Secondary Field Experience II ENGL 4890 Methods of Teaching English FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total NOTE: The courses listed for this semester constitute the professional education block. The student should not take any other courses during this semester.</p>	<p>Hrs 1 2 5 4 12</p>

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.
- 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 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.



College of 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, 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.

University of Central Missouri • Four-Year Academic Guide

Fashion: Textiles & Clothing in Business Major, B.S. Degree (43-118)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I FAME 1400 Introduction to Fashion Merchandising FAME 1420 Applied Design in FAME General Education Semester Total</p>	<p>Hrs. 3 3 3 5-6 14-15</p>	<p>Freshman Year - Spring Semester ENGL 1030 Composition II CHEM 1104 Intro. to the Sciences: Chemistry FAME 1450 Textile & Apparel Fabrications I General Education Semester Total</p>	<p>Hrs. 3 4 3 6 16</p>
<p>Summer – After Freshman or Soph. Year FAME 2440 Fashion Merchandising Practicum* Semester Total</p>	<p>Hrs. 3 3</p>		
<p>Sophomore Year - Fall Semester AGRI 2130 Global Agriculture FAME 2430 Image Management for Fashion General Education Semester Total</p>	<p>Hrs. 3 3 9 15</p>	<p>Sophomore Year - Spring Semester FAME 2442 Textiles ECON 1010 Principles of Macroeconomics ACCT 2101 Principles of Financial Accounting General Education Semester Total</p>	<p>Hrs. 3 3 3 6 15</p>
<p>Junior Year - Fall Semester FAME 3425 Apparel Performance Evaluation** FAME 4434 Fashion History** MGT 3315 Management of Organizations MKT 3400 Principles of Marketing General Education Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>	<p>Junior Year - Spring Semester FAME 3440 Fashion Promotion** FAME 3444 Fashion Products MKT 3480 Consumer Behavior IGEN 3116 Creative Problem Solving MKT 3410 Retail Management Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>
<p>Summer – After Junior or Senior Year FAME 4490 Internship in FAME*/** Semester Total</p>	<p>Hrs. 3 3</p>		
<p>Senior Year - Fall Semester FAME 4430 Merchandising Applications** FAME 4444 Fashion Merchandising** MKT 3430 Professional Sales MKT 3420 Principles of Advertising FAME 4410 Architectural Interiors Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>	<p>Senior Year - Spring Semester FAME 4433 International Apparel Technology** Departmentally Approved Major Elective*** FAME 4445 Senior Seminar in FAME** Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 3 4 13</p>

Fashion: Textiles & Clothing in Business Major, B.S. Degree - 124 hours

- *Students should plan to complete FAME 2440 Fashion Merchandising Practicum during the summer after the freshman or sophomore year. Students should plan to complete FAME 4490 Internship in Fashion and Apparel Merchandising during the summer after the junior or senior year.
- **This class is only offered during the semester indicated.
- ***See department chairperson to get this course pre-approved prior to enrollment.
- See program coordinator prior to enrollment for approval of the Departmentally Approved Major Elective.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Administration Department of Economics and Finance

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 four basic areas – Investments, Business (Corporate) Finance, Banking and Related Institutions, and Personal Financial Planning. 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 Administration's prestigious accreditation by AACSB-International, ensure students are well-prepared for a rewarding career in finance and business.

Professional Certifications

As part of the finance major, students may concentrate in financial planning. This seven-course sequence satisfies the education requirements of the CERTIFIED FINANCIAL PLANNER™ certification. The CFP® certification is widely recognized as the premier certification in personal financial planning.

Many students interested in investment management and analysis pursue the internationally recognized Chartered Financial Analyst (CFA) designation. The Department of Economics and Finance offers exam

scholarships and a review course for the CFA Level I exam for qualified students.

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 and Finance 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 and Finance, UCM, Warrensburg, MO 64093 at 660-543-4246.

For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu. The department's web address is www.ucmo.edu/econ.

University of Central Missouri • Four-Year Academic Guide

Finance Major, B.S.B.A. Degree (46-267)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
Math 1111 College Algebra*	3	ECON 1010 Principles of Macroeconomics*	3
BTE 1210 Essentials of Managing Information*	2	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	CIS 1605 Business Application Software	2
PSY 1100 Gen. Psychology or SOC 1800 Gen. Soc.	3	COMM 1000 Public Speaking	3
General Education	3	General Education	6
Semester Total	14	Semester Total	17
AE 1400 or BADM 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ECON 1011 Principles of Microeconomics*	3	ACCT 2102 Principles of Managerial Accounting*	3
ACCT 2101 Principles of Financial Accounting*	3	BLAW 2720 Legal Environment of Business*	3
FIN 2801 Business Statistics I*	3	General Education	9
General Education	7	Semester Total	15
Semester Total	16	Note: Complete all B.S.B.A. Admission requirements and apply for admission*	
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
MGT 3325 Business Communication	3	FIN 3861 Financial Management I#	3
ECON 3020 Money & Banking	3	FIN 3881 Financial Institutions & Markets#	3
FIN 3801 Business Statistics II	3	FIN 3891 Security Analysis#	3
FIN 3850 Principles of Finance#	3	MGT 3315 Management of Organizations	3
Free Choice Electives	5	Finance or Business Elective***	3
Semester Total	17	Semester Total	15
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
CIS 3630 Management Information Systems	3	ACCT 4115 Financial Statement Analysis	3
ECON 3030 Intermediate Microeconomics	3	MGT 3360 Production/Operations Management	3
MKT 3405 Marketing Policy	3	ICAP 4357 Organizational Policy & Strategy	3
Finance Electives***	6	Finance Electives***	6
Semester Total	15	Semester Total	15

Finance Major, B.S.B.A. Degree - 124 Hours

- *Students in this major must complete eight preadmission courses, with 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.
- ***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 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.
- A 2.40 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Aviation

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. For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Flight Operations Management Major, B.S. Degree (43-553)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>AVIA 1020 Aeronautics AVIA 1310 FAA Private Requirement AVIA 1320 Private Flight A ENGL 1020 Composition I BTE 1210 Essentials of Managing Information or LIS 1600 University Library & Research Skills General Education Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs.</p> <p>2 4 1 3 2 3 15 1</p>	<p>Freshman Year - Spring Semester</p> <p>AVIA 1321 Private Flight B BLAW 2720 Legal Environment of Business MATH 1111 College Algebra ECON 1010 Principles of Macroeconomics ACCT 2100 Survey of Financial Accounting ENGL 1030 Composition II Semester Total</p>	<p>Hrs.</p> <p>1 3 3 3 3 3 16</p>
<p>Sophomore Year - Fall Semester</p> <p>PR&T 3010 Transportation Systems AVIA 3313 Instrument Flight A AVIA 3314 Instrument Flight B AVIA 3325 FAA Instrument Requirement General Education Semester Total</p>	<p>Hrs.</p> <p>3 1 1 4 6 15</p>	<p>Sophomore Year - Spring Semester</p> <p>HRM 3920 Human Resource Management AVIA 4350 Aviation Weather or EASC 3114 Meteorology CTE 3060 Technical Writing MKT 3400 Principles of Marketing PHYS 1104 Introduction to the Sciences: Physics Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 4 16</p>
<p>Junior Year - Fall Semester</p> <p>AVIA 4010 Aerodynamics MATH 1131 Applied Calculus Aviation Safety Semester Total</p>	<p>Hrs.</p> <p>3 3 3 6 15</p>	<p>Junior Year - Spring Semester</p> <p>AVIA 4310 Air Traffic Control MGT 3310 Principles of Management or INDM 4210 Industrial Management FIN 2801 Business Statistics General Education Semester Total</p>	<p>Hrs.</p> <p>2 3 3 6 14</p>
<p>Senior Year - Fall Semester</p> <p>AVIA 4040 Aviation Management AVIA 4420 Air Transportation AVIA 4090 Aviation Law AVIA 4430 Corporate Aviation Management General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>	<p>Senior Year - Spring Semester</p> <p>FIN 3850 Principles of Finance ICAP 4113 Air Operations Management AVIA 4380 Flight Operations Management General Education Free Choice Electives* Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 2 14</p>

Flight Operations Management 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 MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry and Physics

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.

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

University of Central Missouri • Four-Year Academic Guide

Forensic Chemistry Major, B.S. Degree (43-294)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I CHEM 1131 General Chemistry I MATH 1151 Calculus & Analytical Geometry I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 5 5 2 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II CHEM 1132 General Chemistry II General Education Semester Total	Hrs. 3 5 6 14
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Sophomore Year - Fall Semester BIOL 1110 Principles of Biology CHEM 3341 Organic Chemistry I PHYS 1101 or PHYS 2121 College/Univ. Physics I General Education Semester Total	Hrs. 3 4 4-5 3 14-15	Sophomore Year - Spring Semester CHEM 3342 Organic Chemistry II CHEM 3212 Quantitative Analysis General Education PHYS 1102 or PHYS 2122 College/Univ. Physics II Semester Total	Hrs. 4 3 3 4-5 14-15
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Junior Year - Fall Semester BIOL 2511 Genetics CHEM 3111 Intermediate Inorganic Chemistry CHEM 3421 Intermediate Biochemistry CHEM 4231 Instrumental Analysis Semester Total	Hrs. 4 4 3 4 15	Junior Year - Spring Semester BIOL 2010 Human Biology or BIOL 2401 Anatomy & Physiology I BIOL 4013 Intro. to Exper. Design & Analysis General Education Semester Total	Hrs. 3-4 3 9 15-16
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Senior Year - Fall Semester BIOL 3410 Forensic Science CJ 1000 Introduction to Criminal Justice Major Elective** General Education Free Choice Elective Semester Total	Hrs. 3 3 3 3 3 15	Senior Year - Spring Semester BIOL 4514 Molecular Biology CHEM 4531 Physical Chemistry I** or CHEM 4532 Physical Chemistry II** CJ 4302 Criminal Evidence Free Choice Electives General Education (IGEN/ICAP) Semester Total	Hrs. 3 4 3 2-5 3 15-18
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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 will depend on selections made in the major and general education.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Modern Languages

French

BACHELOR OF ARTS DEGREE

The Internet and other forms of instant communication have made international contact a part of everyday life. The Department of Modern Languages offers degree programs in French, German and Spanish for students to become fluent in a second language and prepare for a variety of careers.

Graduates from the Department of Modern Languages are in demand for foreign and domestic positions in business and industry, education, the federal government and the military. Most U.S. corporations have international offices and offer a variety of opportunities. The U.S. State Department's Foreign Service, the Central Intelligence Agency, National Security Agency, Peace Corps, Customs and Immigration and many other federal agencies have a need for people trained in a second language. In addition, there is a continuing need for modern language teachers and researchers.

Curriculum

Students majoring in French must complete 42 credit hours (13 courses). For students who major in a language and began studying in high school, the validated credit program

allows them to receive up to six credits without paying tuition for work completed in high school. The classes for the major include language courses, two composition courses, two conversation classes, and courses in the history of the countries where French is spoken. Students are also able to choose several upper-division-level electives from courses such as French cinema, business French, and French phonetics.

Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class. While not required, all majors and minors are encouraged to include a study abroad component in their programs. Students have studied in a number of exciting cities such as Angers, France, and Quebec City in Canada.

Student Activities

Students are encouraged to supplement their academic programs through involvement in campus activities. Many conversational and cultural experiences are available to students by participating in activities of the French Club.

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.

For More Information

To learn more write to the Department of Modern Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at www.ucmo.edu/modlang.

For admission information, call toll free 877-SAY-UCMO (877-729-8266). UCM's home page is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

French Major, B.A. Degree (42-318)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I FREN 2201 Intermediate French I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 8-9 14-15 1	Freshman Year -Spring Semester ENGL 1030 Composition II FREN 2202 Intermediate French II General Education Minor Coursework Semester Total	Hrs. 3 3 6 3 15
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Sophomore Year - Fall Semester FREN 3261 French Civilization & Literature I FREN 3243 French Conversation General Education Minor Coursework Semester Total	Hrs. 3 3 6-7 3 15-16	Sophomore Year - Spring Semester FREN 3262 French Civilization & Literature II FREN 3223 French Composition General Education Minor Coursework Semester Total	Hrs. 3 3 6 3 15
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Junior Year - Fall Semester FREN 4223 Advanced French Composition Minor Coursework General Education Semester Total	Hrs. 3 6 6 15	Junior Year - Spring Semester FREN 4243 Advanced French Conversation Minor Coursework General Education Free Choice Electives Semester Total	Hrs. 3 6 3 3 15
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Senior Year - Fall Semester FREN 4263 French Phonetics FREN Electives 3000/4000 Level Minor Coursework Free Choice Electives Semester Total	Hrs. 3 3 3 6 15	Senior Year - Spring Semester FREN 4265 The Contemp. French-Speaking World FREN Electives 3000/4000 Level Minor Coursework General Education (IGEN/ICAP) Free Choice Electives Semester Total	Hrs. 3 3 3 3 1 13
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French Major, B.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.
- **Credits for French 1201 (Elementary French I) and French 1202 (Elementary French II):**
 If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing French 2201 with a grade of "C" or higher (validated credit program).
- This plan is based on a 27-hour minor. Number of free choice electives needed depends on choice of minor.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Modern Languages

French

BACHELOR OF SCIENCE DEGREE

The Internet and other forms of instant communication have made international contact a part of everyday life. The Department of Modern Languages offers degree programs in French, German and Spanish for students to become fluent in a second language and prepare for a variety of careers.

Graduates from the Department of Modern Languages are in demand for foreign and domestic positions in business and industry, education, the federal government and the military. Most U.S. corporations have international offices and offer a variety of opportunities. The U.S. State Department's Foreign Service, the Central Intelligence Agency, National Security Agency, Peace Corps, Customs and Immigration and many other federal agencies have a need for people trained in a second language. In addition, there is a continuing need for modern language teachers and researchers.

Curriculum

Students majoring in French must complete 42 credit hours (13 courses). For students who major in a language they began studying in high school, the validated credit program

allows them to receive up to six credits without paying tuition for work completed in high school. The classes for the major include language courses, two composition courses, two conversation classes, and courses in the history of the countries where French is spoken. Students are also able to choose several upper-division level electives from courses such as French cinema, business French, and French phonetics.

Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class. While not required, all majors and minors are encouraged to include a study abroad component in their programs. Students have studied in a number of exciting cities such as Angers in France and Quebec City in Canada.

Student Activities

Students are encouraged to supplement their academic programs through involvement in campus activities. Many conversational and cultural experiences are available to students by participating in activities of the French Club.

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.

For More Information

To learn more write to the Department of Modern Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at www.ucmo.edu/modlang.

For admission information, call toll free 877-SAY-UCMO (877-729-8266). UCM's home page is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

French Major, B.S. Degree (43-319)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
FREN 2201 Intermediate French I	3	FREN 2202 Intermediate French II	3
General Education	8-9	General Education	6
Semester Total	14-15	Minor Coursework	3
AE 1400 Freshman Seminar*	1	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
FREN 3261 French Civilization & Literature I	3	FREN 3262 French Civilization & Literature II	3
FREN 3243 French Conversation	3	FREN 3223 French Composition	3
General Education	6-7	General Education	6
Minor Coursework	3	Minor Coursework	3
Semester Total	15-16	Semester Total	15

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
FREN 4223 Advanced French Composition	3	FREN 4243 Advanced French Conversation	3
Minor Coursework	6	Minor Coursework	6
General Education	6	General Education	3
Semester Total	15	Free Choice Electives	3
		Semester Total	15

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
FREN 4263 French Phonetics	3	FREN 4265 The Contemp. French Speaking World	3
FREN Electives 4000 level	3	FREN Electives 4000 Level	3
Minor Coursework	3	General Education (IGEN/ICAP)	3
Free Choice Electives	6	Minor Coursework	3
Semester Total	15	Free Choice Electives	1
		Semester Total	13

French 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.
- **Credits for French 1201 (Elementary French I) and French 1202 (Elementary French II):**
If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing French 2201 with a grade of "C" or higher (validated credit program).
- This plan is based on a 27-hour minor. Number of free choice electives depends on minor chosen.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Modern Languages

French

BACHELOR OF SCIENCE IN EDUCATION DEGREE

University of Central Missouri's Bachelor of Science in Education degree program with a major in French is designed for students who want to teach French in Missouri schools. 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.

The Internet and other forms of instant communication have made international contact a part of everyday life. The Department of Modern Languages offers degree programs in French, German and Spanish for students to become fluent in a second language and prepare for a variety of careers.

Graduates from the Department of Modern Languages are in demand for foreign and domestic positions in business and industry, education, the federal government and the military. Most U.S. corporations have international offices and offer a variety of opportunities. The U.S. State Department's Foreign Service, the Central Intelligence Agency, National Security Agency, Peace Corps, Customs and Immigration and many other federal agencies have a need for people trained in a second language. In addition, there is a continuing

need for modern language teachers and researchers.

Curriculum

Students majoring in French must complete 42 credit hours (13 courses). For students who major in a language they began studying in high school, the validated credit program allows them to receive up to six credits without paying tuition for work completed in high school. The classes for the major include language courses, two composition courses, two conversation classes, and courses in the history of the countries where French is spoken. Students are also able to choose several upper-division level electives from courses such as French cinema, business French, and French phonetics.

Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class. While not required, all majors and minors are encouraged to include a study abroad component in their programs. Students have studied in a number of exciting cities such as Angers in France and Quebec City in Canada.

Student Activities

Students are encouraged to supplement their academic programs through involvement in campus activities. Many conversational and cultural experiences are available to

students by participating in activities of the French Club.

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.

For More Information

To learn more write to the Department of Modern Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at www.ucmo.edu/modlang.

For admission information, call toll free 877-SAY-UCMO (877-729-8266). UCM's home page is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

French Education Major, B.S. in Ed. Degree (41-334)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
<i>ENGL 1020 Composition I</i>	3	<i>ENGL 1030 Composition II</i>	3
<i>POLS 1510 American Government</i>	3	FREN 2202 Intermediate French II	3
FREN 2201 – Intermediate French I	3	<i>General Education MATH</i>	3
<i>General Education Science w/lab*</i>	4	Coursework for Minor	3
General Education	2-3	<i>HIST 1350 or 1351 US History</i>	3
Semester Total	15-16	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Second	Hrs.
EDFL 2100 Foundations of Education	2	FREN 3262 French Civilization & Literature II	3
FLDX 2150 Introductory Field Experience	1	FREN 3223 French Composition	3
EDFL 2240 Educational Psychology	3	FREN 4243 Advanced French Conversation	3
FREN 3261 French Civilization & Literature I	3	Upper-Level French Elective	3
FREN 3243 French Conversation	3	Coursework for Minor	3
General Education	3	General Education	3
Coursework for Minor	18	Semester Total	18
Semester Total			

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
FREN 4223 Advanced French Composition	3	FREN 4265 The Contemp. French-Speaking World	3
Upper-Level French Elective	3	EDFL 4300 Educ. Measurement & Evaluation	2
Coursework for Minor	3	PSY 4200 Psych. of Exceptional Children or	
General Education	6	EDSP 2100 Educ. of the Exceptional Child	2
Semester Total	15	General Education	6
		Coursework for Minor	3
		Semester Total	16

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
FREN 4263 French Phonetics	3	ML 4020 Field Experience II	1
PSY 4230 Psychology of Adolescence	3	ML 4054 Methods of Teaching Foreign Languages	2
EDFL 4210 Teaching Reading in Secondary Schools	2	FLDX 4495 Student Teaching Elementary I	5
EDFL 3500 Secondary Teaching & Behavioral Mgt.	3	ICAP 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	Semester Total	12
Coursework for Minor	3		
Semester Total	15		

French Education Major, B.S. in Ed. Degree - 130 hours (124 hours taken on campus plus six hours of "validated credit" or "dual credit".)

- *Students pursuing a B.S. in Ed. must complete a biology prefix.
- **Credits for FREN 1201 (Elementary French I) and FREN 1202 (Elementary French II):**
If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing French 2201 with a grade of "C" or higher (validated credit program).
- 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 and prior to taking 4000-level Education courses.
- See 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.



College of Health and Human Services
Department of Health and Human Performance

General Recreation

BACHELOR OF SCIENCE DEGREE

The Bachelor of Science in General Recreation degree has a long history at University of Central Missouri, with recreation majors gracing the halls for almost 50 years. It is a program that has had a significant impact on recreation education in Missouri. The aim is to provide a curriculum to prepare students who aspire to management level positions with a program suited to the future recreation professional. Many graduates now enjoy successful careers in areas such as adventure/risk recreation, commercial recreation, community recreation (municipal parks and recreation is the most popular interest area among current students), intramural/recreation sports, military recreation, outdoor recreation/education, and rural recreation. Opportunities for graduates also exist at senior centers, state and national parks, student unions, voluntary and youth sports, and travel/tourism.

Student Involvement

Recreation majors have a student organization (STARS) with roots in the former Recreation Majors Society. The organization has been instrumental in arranging professional speakers

outside the classroom, philanthropic activities, fundraising for members, professional opportunities, trips, social opportunities, leadership opportunities, team-building exercises, skill development, and meeting skills.

Scholarships

Students are encouraged to apply for University of Central Missouri scholarships through the Office of Student Financial Services. Substantial financial aid is available to recreation students through the Missouri Parks and Recreation Scholarship Trust Fund, and through the Evelyn and Lyle Beaver Scholarship Fund (UCM Foundation).

Curriculum

Efforts are made to enhance the traditional delivery of information in the classroom. Many professionals are brought into the classroom as guest lecturers or to teach classes. Class field trips involve acquainting students with regional experts and facilities. Students also engage in classroom projects that assist local communities. Providing real world application of class material, enhancing the spirit of good citizenship, and producing

students capable of enhancing the quality of life for all are just a few of the program goals.

Internship opportunities are available in both Missouri and across the nation. Students must work at least 500 hours in the field before interning, take all required major coursework and maintain satisfactory grades and grade point averages, and then work a minimum of another 500 hours in an approved internship setting. This internship experience is very effective in improving the competitiveness of recreation graduates in the workplace.

Classes are to be held in a modernized facility (\$15 million renovation) to be completed January 2011. Next door a \$20 million, 69,000 square foot student recreation and wellness center may serve as a learning lab for majors.

To Learn More

For more information about this major, contact the Department of Health and Human Performance at 660-543-4256, visit its web page at www.ucmo.edu/hhp/ or stop by the department office in Humphreys 216.

University of Central Missouri • Four-Year Academic Guide

General Recreation Major, B.S. Degree (43-814)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester REC 1100 Introduction to Recreation ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 9 15 1	Freshman Year - Spring Semester REC 2200 Develop. Recreation & Tourism Prog.** ENGL 1030 Composition II General Education Semester Total	Hrs. 3 3 9-10 15-16
Sophomore Year - Fall Semester REC 3530 Outdoor Rec. Skills & Adventure** REC 3210 Leadership & Group Dynamics** General Education Semester Total	Hrs. 3 3 9 15	Sophomore Year - Spring Semester TOUR 3500 Microcomp. App. for Tourism & Rec. Free Choice Electives General Education Semester Total	Hrs. 3 2 9 14
Junior Year - Fall Semester TOUR 4740 Special Events Planning REC 4710 Mng. Rec. & Tourism Enterprises*** or REC 4720 Fin. Rec. & Tourism Enterprises*** Free Choice Electives General Education Semester Total	Hrs. 3 3 5 3 14	Junior Year - Spring Semester PE 4740 Legal Liability in F/W, PE, Rec. & Sp. Set. General Education Free Choice Electives Semester Total	Hrs. 2 3 8 13
Senior Year - Fall Semester REC 4740 Senior Seminar** REC 4710 Managing Rec. & Tourism Enterpr.*** or REC 4720 Fin. Rec. & Tourism Enterprises*** Free Choice Electives Semester Total	Hrs. 2 3 9 14	Senior Year - Spring Semester TOUR 4720 Tourism Planning & Development** TOUR 4730 Tourism Marketing** Free Choice Electives Semester Total	Hrs. 3 3 8 14
Summer Semester following Senior Year REC 4980 Internship# Semester Total	Hrs. 6 6		

General Recreation Major, B.S. Degree - 120 hours

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- **This class is only offered during the semester indicated.
- ***REC 4710 is only offered during even years (2010, 2012, etc.) of the Fall semester and REC 4720 is only offered during odd years (2009, 2011, etc.) of the Fall semester.
- #Prior to enrollment in REC 4980, the student must complete a 500-hour field work experience in an approved setting, have a minimum of 2.5 GPA in the major, and a minimum overall GPA of 2.25.
- This degree program may lead to Missouri Park and Recreation Association Leader Certification.
- This degree program includes 32 hours of free choice electives; a minor is recommended but not required.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Geography

Geography

BACHELOR OF ARTS DEGREE

There is more to geography than maps. Careers for graduates from the University of Central Missouri's Department of Geography are found in government, education, business, and industry.

Students who seek a degree in geography may specialize in a variety of areas, including physical, regional, economic, urban, environmental, political, remote sensing, cartography and Geographic Information Systems (GIS). Geography graduates pursue careers as foresters, ecologists, hydrologists, site analysts, climatologists, planners, land developers, surveyors, conservationists, demographers, market researchers, resource specialists, population analysts, industrial developers, teachers, spatial data analysts, GIS technicians, image analysts, and cartographers.

About the Faculty

Geography 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 17 to 1 student-faculty ratio.

Upon declaring a major or minor in geography, faculty will personally assist students in planning their program and course of study.

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

There are many ways for geography students to become involved on the UCM campus, including membership in the Geography Club, which helps members further their professional interests. Qualified students may also pursue membership in Gamma Theta Upsilon, the department's honor organization in geography.

To Learn More

For more information, write to the Department of Geography, Wood Building, Suite 8, UCM, Warrensburg, MO 64093, or call 660-543-4048. The geography home page is www.ucmo.edu/geography/.

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

University of Central Missouri • Four-Year Academic Guide

Geography Major, B.A. Degree (42-429)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I Modern Language Requirement* GEOG 2212 World Geography General Education Semester Total AE 1400 Freshman Seminar**	Hrs. 3 3 3 6 15 1	Freshman Year -Spring Semester Elective in GEOG ENGL 1030 Composition II Modern Language Requirement* General Education Semester Total	Hrs. 3 3 3 6 15
Sophomore Year - Fall Semester GEOG 2100 Physical Geography General Education General Education Science w/lab (EASC 1004)*** Modern Language Requirement* Semester Total	Hrs. 3 5 4 3 15	Sophomore Year - Spring Semester GEOG 2246 Economic Geography General Education Minor Coursework Semester Total	Hrs. 3 9 3 15
Junior Year - Fall Semester GEOG 3270 Research Methods in Geography Minor Coursework Elective in GEOG or Approved EASC Free Choice Elective Semester Total	Hrs. 3 6 3 3 15	Junior Year - Spring Semester Upper-Level Electives in GEOG**** or Approved EASC Free Choice Elective Minor Coursework Semester Total	Hrs. 6 3 6 15
Senior Year - Fall Semester GEOG 4201 Cartography General Education Minor Coursework Upper-Level Elective in GEOG**** Semester Total	Hrs. 3 6 3 3 15	Senior Year - Spring Semester Upper-Level Electives in GEOG****/**** Minor Coursework Free Choice Electives Semester Total	Hrs. 3 3 9 15

Geography Major, B.A. Degree - 120 hours

- *Refer to the current catalog for fulfillment options for the B.A. Degree. This plan includes nine hours of Modern Languages.
- **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.
- ***If selected, EASC 1004 will fulfill 4 hours of General Education Div. II A and major electives.
- ****If selected, GEOG 3201 will fulfill 3 hours of General Education Div. II D and major electives.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen and course selections 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, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Geography

Geography

BACHELOR OF SCIENCE DEGREE

There is more to geography than maps. Careers for graduates from the University of Central Missouri's Department of Geography are found in government, education, business, and industry.

Students who seek a degree in geography may specialize in a variety of areas, including physical, regional, economic, urban, environmental, political, remote sensing, cartography and Geographic Information Systems (GIS). Geography graduates pursue careers as foresters, ecologists, hydrologists, site analysts, climatologists, planners, land developers, surveyors, conservationists, demographers, market researchers, resource specialists, population analysts, industrial developers, teachers, spatial data analysts, GIS technicians, image analysts, and cartographers.

About the Faculty

Geography 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 17 to 1 student-faculty ratio.

Upon declaring a major or minor in geography, faculty will personally assist students in planning their program and course of study.

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

There are many ways for geography students to become involved on the UCM campus, including membership in the Geography Club, which helps members further their professional interests. Qualified students may also pursue membership in Gamma Theta Upsilon, the department's honor organization in geography.

To Learn More

For more information, write to the Department of Geography, Wood Building, Suite 8, UCM, Warrensburg, MO 64093, or call 660-543-4048. The geography home page is www.ucmo.edu/geography/.

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

University of Central Missouri • Four-Year Academic Guide

Geography Major, B.S. Degree (43-430)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
ENGL 1020 Composition I	3	Elective in GEOG	3
GEOG 2212 World Geography	3	ENGL 1030 Composition II	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
GEOG 2100 Physical Geography	3	GEOG 2246 Economic Geography	3
General Education	8-9	General Education	6
General Education Science w/lab (EASC 1004)**	4	Minor Coursework	3
Semester Total	15-16	Free Choice Elective	3
		Semester Total	15
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
GEOG 3270 Research Methods in Geography	3	Upper-Level Electives in GEOG***	
Minor Coursework	6	(or approved EASC)	3
Elective in GEOG (or approved EASC)	3	Free Choice Elective	6
Free Choice Elective	3	Minor Coursework	6
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
GEOG 4201 Cartography	3	Upper-Level Electives in GEOG***	6
General Education	3	Minor Coursework	3
Minor Coursework	3	Free Choice Electives	6
Upper-Level Elective in GEOG***	3	Semester Total	15
Free Choice Elective	3		
Semester Total	15		

Geography Major, B.S. Degree - 120 hours

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- **If selected, EASC 1004 will fulfill 4 hours of General Education Div. II A and major electives.
- ***If selected, GEOG 3201 will fulfill 3 hours of General Education Div. II D and major electives.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen and course selections 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, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology

Department of Biology and Earth Science

GEOLOGY

BACHELOR OF SCIENCE DEGREE

The geology major is structured to provide the level of training and competence required by graduate schools and employers for a wide variety of careers in areas such as environmental geology, geochemistry, and hydrogeology. Pursuit of a professional career usually entails postgraduate study; however, direct employment opportunities are available to qualified graduates.

While learning the fundamental concepts of geological science, students are trained to think analytically, creatively, and quantitatively, gaining first-hand experience in laboratory and field techniques used in the study of geological materials.

Depending on their area of specialization, geologists utilize knowledge of chemistry, physics, biology, engineering, and mathematics. Geological endeavors range from the purely descriptive to the highly quantitative.

Geology encompasses a great variety of subdisciplines, including: geophysics, geochemistry, tectonics, structural geology, sedimentology, geomorphology, hydrogeology, mineralogy, and petrology.

Geologists play an increasingly important role in studying, preserving, and cleaning up the environment. They advise construction companies and government agencies on the suitability of locations being considered for buildings, highways, and other structures. They also prepare geological reports, maps,

and diagrams. Geologists understand how the dynamic forces which shape our earth work, and use this knowledge to predict their affect on mankind.

Earthquakes, volcanoes and soil erosion affect all of us – even if the geological event occurs halfway around the world. Food production depends on accurate soil sampling, land erosion monitoring and water drainage information. Fishermen who experience diminishing catches look to geologists to explain silting, underwater seismic events or other phenomena in order to react appropriately.

Geology graduates also have a valuable background that can be applied to other areas as well. Graduates in geology successfully pursue professional degrees in earth science teaching, law, business administration, land-use planning, journalism, museum science, ocean science, and natural resources. In recent years, demand has been high among environmental law firms for students with combined geology and law degrees.

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). The university's home page on the web is www.ucmo.edu. Biology and Earth Science web pages may be accessed through Central Missouri's site.

University of Central Missouri • Four-Year Academic Guide

Geology Major, B.S. Degree (43-388)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester EASC 1004 Intro. to the Sciences: Geology ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*	Hrs 4 3 6 13 1	Freshman Year -Spring Semester EASC 2200 Historical Geology MATH Option** ENGL 1030 Composition II General Education Semester Total	Hrs 4 3-5 3 6 16-18
Sophomore Year - Fall Semester EASC 3320 Mineralogy GEOG 4220 Geography Information Systems I MATH Option** EASC Major Elective*** Semester Total	Hrs 4 3 4-5 3 14-15	Sophomore Year - Spring Semester EASC 4325 Petrology EASC Major Elective*** General Education Semester Total	Hrs 4 3-4 5-6 12-14
Junior Year - Fall Semester PHYS 1101 or 2121 College/University Physics I CHEM 1131 General Chemistry I General Education Semester Total	Hrs 4-5 5 6 15-16	Junior Year - Spring Semester EASC 3110 Structural Geology CHEM 1132 General Chemistry II General Education Semester Total	Hrs 4 5 6 15
Junior Year - Summer Semester Field Course#	Hrs 6		
Senior Year - Fall Semester EASC Major Elective*** PHYS 1102 or 2122 College/University Physics II Free Choice Electives## Semester Total	Hrs 3-4 4-5 9 16-18	Senior Year - Spring Semester EASC 4420 Sedimentary Petrology & Strat.### General Education Free Choice Electives## Semester Total	Hrs 5 3 5-9 13-19

Geology 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.
- **The Math Option for the major also fulfills the General Education Mathematics requirement. See the 2009 Undergraduate Catalog for the Math Option choices.
- ***Students must complete 9-11 hours of EASC electives. See the 2009 Undergraduate Catalog for the approved list of courses to choose from.
- #Must be taken at an approved university. See department for more information.
- ##The number of free choice electives required will depend on selections made in the major and general education.
- ###This course is offered Spring Semester only of even numbered years.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 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 National Association of Industrial Technology (NAIT).

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 National Association of Industrial Technology (NAIT) 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.

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

University of Central Missouri • Four-Year Academic Guide

Graphic Arts Technology Management Major, B.S. Degree (43-146)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
GRAP 1000 Orientation to Graphic Arts*	1	GRAP 2030 Digital Pre-Press for Printing Appl.	3
GRAP 1010 Fundamentals of Printing Processes	3	GRAP 2031 Digital Imaging Processing	3
General Education	8	General Education	6
Semester Total	15	Semester Total	15
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
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
Major Emphasis Area Elective**	3	General Education	6
PHYS 1104 Physics or CHEM 1104 Chemistry	4	Semester Total	16
Semester Total	16		
Summer - Between Sophomore & Junior Year	Hrs.		
GRAP 3016 or SOT 3022 Internship** (Optional)	3		
Semester Total	3		
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
Major Emphasis Area Elective**	3	GRAP 3043 Binding, finishing, & Distribution*	3
General Education	6	GRAP 3051 Graphic Art Management*	3
GRAP 3024 Flexographic Technology*	3	Major Emphasis Area Elective**	3
GRAP 4038 Color Science*	4	MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3
Semester Total	16	MGT 3325 Business Communications	3
		Semester Total	15
Summer - Between Junior & Senior Year	Hrs.		
GRAP 3016 or SOT 3022 Internship***	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
GRAP 4053 Graphic Arts Production Analysis*	3	GRAP 4055 Printing Estimating & Costing*/#	3
GRAP 3057 Graphic Arts Quality Assurance*	3	IGEN 3116 Creative Problem Solving	3
GRAP 4095 Senior Seminar in Graphic Arts*	1	General Education	3
Free Choice Elective	3	Free Choice Elective	3
General Education	6	Semester Total	12
Semester Total	16		

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 MAPP test 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 and 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 and Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

Graphic Design, B.F.A. Degree (47-324)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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	GRAP 1010 Fundamentals of Printing Processes	3
General Education	3	ENGL 1030 Composition II	3
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 2335 Design III	3	ART 2710 Introduction to Printmaking	3
ART 2610 Introduction to Commercial Art	3	Required Course From Area of Emphasis	3
Required Course From Area of Emphasis	3	ART 1825 Art History Survey II	3
ART 1815 Art History Survey I (fall) or ART 1835 Sur. of Non-West. Art Hist. (spring)	3	General Education	8-10
General Education	3	Semester Total	18
Semester Total	15		

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
Required Course From Area of Emphasis	3	ART 4850 20th Century Art & Architect. (fall) or ART 4860 Contemp. Art & Design (spring)	3
ART 2412 Ceramics I or ART 2420 Sculpture I	3	Required Course From Area of Emphasis	3
ART 3510 Watercolor	3	Elective From Area of Emphasis	3
Elective From Area of Emphasis	6	General Education	6
General Education	3	Semester Total	15
Semester Total	18		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
Required Course From Area of Emphasis	3	ART 4020 Studio Seminar (Portfolio)	3
ART Elective	3	Required Course From Area of Emphasis	3
Electives From Area of Emphasis	6	ICAP 4221 Artists in Contemporary Society	3
General Education	6	General Education	6
Semester Total	18	Semester Total	15

Graphic Design, B.F.A. Degree - 129 hours

- To satisfy the General Education Assessment Policy students must take the MAPP test 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 and the department's home page is www.ucmo.edu/history.

University of Central Missouri • Four-Year Academic Guide

History Major, B.A. Degree (42-420)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
HIST 1350 U.S. History to 1877	3	General Education	3
Modern Language Requirement*	3	HIST 1351 U.S. History from 1877	3
General Education	6	HIST 2402 History of Modern World	3
Semester Total	15	Modern Language Requirement*	3
AE 1400 Freshman Seminar**	1	Semester Total	15
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
HIST 2400 History of the Early World	3	HIST 2401 History of the Early Modern World	3
General Education	9	General Education	9
Modern Language Requirement*	3	Free Choice Elective	3
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
SOSC 3010 Writing in 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
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
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	Semester Total	15
Semester Total	15		

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 MAPP test 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.

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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

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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.

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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.

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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 and the department's home page is www.ucmo.edu/history.

University of Central Missouri • Four-Year Academic Guide

History Major, B.S. Degree (43-421)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I HIST 1350 U.S. History to 1877 General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II HIST 1351 U.S. History from 1877 HIST 2402 History of Modern World General Education Semester Total	Hrs. 3 3 3 6 15
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Sophomore Year - Fall Semester HIST 2400 History of the Early World General Education Semester Total	Hrs. 3 12 15	Sophomore Year - Spring Semester HIST 2401 History of the Early Modern World General Education Free Choice Electives Semester Total	Hrs. 3 6 6 15
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Junior Year - Fall Semester SOSC 3010 Writing in Social Sciences Upper-Level Elective in American History Free Choice Electives Semester Total	Hrs. 3 3 9 15	Junior Year - Spring Semester Upper-Level Elective in American History Upper-Level Elective in World History** Free Choice Electives Semester Total	Hrs. 3 3 9 15
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Senior Year - Fall Semester Upper-Level Elective in World History** Upper-Level Elective in History Free Choice Electives Semester Total	Hrs. 6 3 6 15	Senior Year - Spring Semester IGEN 4231 Myth, Memories, & Realities Free Choice Electives Semester Total	Hrs. 3 12 15
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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 MAPP test 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 and Human Services
Department of Health and Human Performance

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 College of Health and Human Services 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 Quantities Food 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 Health and Human Performance at 660-543-4256, or visit our web page at www.ucmo.edu/hhp/ or stop by our office in Humphreys 216.

University of Central Missouri • Four-Year Academic Guide

Hotel and Restaurant Administration Major, B.S. Degree (43-275)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester HM 1800 Introduction to Hospitality ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 9 15 1	Freshman Year - Spring Semester BTE 1210 Essentials of Managing Information or LIS 1600 University Library & Research Skills CHEM 1104 Intro. to Sciences: Chemistry ENGL 1030 Composition II ECON 1010 Principles of Macroeconomics General Education Semester Total	Hrs. 2 4 3 3 3 15
Sophomore Year - Fall Semester FOOD 2322 Food Preparation HM 2830 Hotel-Restaurant Sanitation & Safety ACCT 2100 Survey of Accounting General Education Semester Total	Hrs. 3 2 3 6 14	Sophomore Year - Spring Semester FOOD 3332 Quantity Food Production & Service General Education Semester Total	Hrs. 3 12 15
Junior Year - Fall Semester FOOD 3333 Food Systems Management HM 3800 Front Office Operations & Management HM 3850 Plant Operations & Management MGT 3315 Management of Organizations Free Choice Electives Semester Total	Hrs. 3 3 2 3 3 14	Junior Year - Spring Semester HM 3844 Dining Room Management TOUR 4720 Tourism Planning & Dev. (Spring Only) HRM 3920 Human Resource Management Free Choice Electives Semester Total	Hrs. 3 3 3 5 14
Summer Semester Following Junior Year HM 4710 Internship Semester Total	Hrs. 5 5		
Senior Year - Fall Semester HM 4720 Hospitality Technology HM 4800 Hotel & Restaurant Management HM 4850 Hospitality Operations Analysis General Education (IGEN/ICAP) Free Choice Electives Semester Total	Hrs. 2 3 3 3 3 14	Senior Year - Spring Semester HM 3860 Beverage Management & Marketing HM 4745 Senior Seminar HM 4840 Legal Aspects of Hotel Restaurant Mgmt. TOUR 4730 Tourism Marketing (Spring only) Free Choice Electives Semester Total	Hrs. 3 3 3 3 2 14

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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 American Society of Interior Designers (ASID) 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 and Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

Interior Design Major, B.F.A. Degree (47-261)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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 2310 Introduction to Interior Design	3
GRAP 1105 Basic AutoCAD	1	GRAP 2170 Intro. to Computer Aided Drafting	2
GRAP 1110 Fundamentals of Drafting	2	ENGL 1030 Composition II	3
General Education	3	ART 1800 Ideas & the Visual Arts	3
Semester Total	15	Semester Total	17

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 2320 Residential Interior Design	3	ART 3310 Traditional Interiors	3
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 2335 Design III	3	ART 2511 Painting I or ART 3510 Watercolor	3
ART 3305 Int. Design Presentation Techniques	3	GRAP 3160 Residential Architectural Drawing	3
ART 3800 History of Furniture & Interiors	3	FAME 2442 Textiles	3
General Education	3	General Education	3
Semester Total	18	Semester Total	18

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
ART 3330 Restaurant/Store Planning	3	ART 4340 Corporate & Institutional Design	3
ART 2412 Ceramics I or ART 2420 Sculpture I	3	ART 4850 20th Century Art & Architecture or ART 4860 Contemporary Art & Design	3
ART 3340 Interior Detailing & Furniture Design	3	General Education	8-9
FAME 4410 Architectural Interiors	3	Semester Total	14-15
General Education	3		
Semester Total	15		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
ART 4020 Studio Seminar	3	ART 3320 Prof. Practice for Int. Designers**	3
ICAP 4221 Artists in Contemporary Society	3	Major Elective*	3
Major Elective*	3	General Education	9
General Education	6	Semester Total	12
Semester Total	15		

Interior Design Major, B.F.A. Degree - 128 hours

- *Choose 6 hours of major electives from list of courses in the 2009 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 MAPP test 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

Journalism

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 in written, oral or electronic forms are the hallmark of the programs in the University of Central Missouri's Department of Communication.

A combination of a strong curriculum, which emphasizes community journalism, and opportunities for hands-on experience at various media facilities, provide a broad base of knowledge and skills training in journalism. Required courses that emphasize theory and skills include elements of news reporting, copy editing and layout, heritage of American journalism, feature writing, mass communication law, editorial and interpretative writing, and advanced news reporting.

Hands-on experience can be gained at the department's student newspaper, the *Muleskinner*, an award-winning weekly laboratory publication. Paid editorial and advertising positions are available,

as well as practical experience for course credit.

The program also maintains an internship and placement program through which a student can earn course credit while working on a newspaper, magazine or broadcast news operation as an intern, as well as receive assistance from faculty members in developing resumes, clip files, and finding job opportunities.

Faculty

There are 20 full-time faculty members in the Department of Communication with work experience and scholarly expertise in their areas of specialization. Graduate assistants complement the laboratory programs as teachers and managers. Small class size and good communication with faculty provide quality classroom experiences that complement the hands-on practical experiences available to students.

Student Involvement

UCM's students are encouraged to take part in co-curricular activities that relate to their major. Communication organizations open to students include the Society of

Professional Journalists 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 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 Maastricht Center for Transatlantic Studies in Maastricht, The Netherlands.

To Learn More

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

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

University of Central Missouri • Four-Year Academic Guide

Journalism Major, B.S. Degree (43-345)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester COMM 1100 Introduction to Communication COMM 1000 Public Speaking ENGL 1020 Composition I General Education Semester Total	Hrs 1 3 3 9 16	Freshman Year - Spring Semester COMM 1520 Elements of News Reporting ENGL 1030 Composition II General Education Semester Total	Hrs 3 3 9 15
Sophomore Year - Fall Semester COMM 2100 Intro. to Communication Theory COMM 2520 Copy Editing & Layout General Education Semester Total	Hrs 3 3 6-7 15-16	Sophomore Year - Spring Semester COMM Elective* COMM 3200 Mass Media Practicum Minor Coursework General Education Semester Total	Hrs 3 1 6 5-6 15-16
Junior Year - Fall Semester COMM 3100 Communication Research Methods COMM 3525 Feature Writing** Free Choice Electives Minor Coursework Semester Total	Hrs 3 3 6 3 15	Junior Year - Spring Semester COMM 4500 Heritage of American Journalism** COMM 4210 Mass Media Practicum II COMM 3010 Interpersonal Communication Coursework in Minor Free Choice Electives Semester Total	Hrs 3 1 3 6 3 16
Summer - Between Junior & Senior Year COMM 4295 Internship Semester Total	Hrs 1-3 1-3		
Senior Year - Fall Semester COMM 4250 Mass Communication Law COMM Elective* IGEN 3232 or 3224 or 4224 Minor Coursework Semester Total	Hrs 3 3 3 6 15	Senior Year - Spring Semester COMM 4535 Advanced News Reporting** COMM Elective* Free Choice Electives Semester Total	Hrs 3 3 9 15

Journalism Major, B.S. Degree - 124 hours

- *Students choose 9-12 hours from the following list: COMM 3530 Photojournalism (3); COMM 4200 Special Topics (1-6); COMM 4260 Comparative Media Systems (2); COMM 4280 Criticism of Mass Media (2); COMM 4555 Advanced Editing (3). Students who want to concentrate in broadcast journalism or editing for newspapers and magazines should see a departmental advisor for possible substitutions.
- **Course is offered only during the semester indicated.
- During the last semester of their senior year, all graduates must submit a portfolio that reflects their abilities and accomplishments. See department adviser for requirements.
- This plan is based on a 21 hour minor.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Administration Department of Management and Business Communication

Management

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

The Department of Management and Business Communication in the Harmon College of Business Administration (HCBA) at UCM offers students educational experiences that will help them address the challenges of business in a wide variety of careers.

The Management & Business Communication Department offers a Bachelor of Science in Business Administration (BSBA) with a major in Management. We also offer a Management minor with an entrepreneurial focus. 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.

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 HCBA Business Internship Center information is at <http://ucmo.edu/intern>.

Course & Club Cooperation

For example, in the fall of 2007, the MGT 4370 Supply Chain Management Class and the Students in Free Enterprise (SIFE) team (www.sife.org) partnered with Johnson County, Missouri, to create, plan, organize, manage and execute an electronics recycling program. Students negotiated with recyclers and shippers while organizing the logistics for this reverse supply chain project.

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

AACSB Accredited Degree

All UCM business programs are accredited by the AACSB International (www.aacsb.edu).

Employer interest in Management majors

College recruiting is up 20% this year and expected to continue to rise for the next 3-5 years. 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 2007.

The UCM Career Services web site is: 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

Central Summit Center

The BSBA in Management is also offered in Lee's Summit, MO. E-mail Dr. Chris Wright (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 Administration, UCM, Warrensburg, MO 64093; visit HCBA's web pages at www.ucmo.edu/hcba; call the Department of Management and Business Communication at 660-543-4247 or HCBA at 660-543-4560.

For admission information, call 877-SAY-UCMO. Central Missouri's web address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Management Major, B.S.B.A. Degree (46-268)

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Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
MATH 1111 College Algebra*	3	ECON 1010 Principles of Macroeconomics*	3
BTE 1210 Essentials of Managing Information*	2	CIS 1605 Business Application Software	2
PSY 1100 Gen. Psych. or SOC 1800 Gen. Soc.	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	COMM 1000 Public Speaking	3
General Education	3	General Education	6
Semester Total	14	Semester Total	17
AE 1400 or BADM 1400 Freshman Seminar***	1		

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
FIN 2801 Business Statistics I*	3	BLAW 2720 Legal Environment of Business*	3
ECON 1011 Principles of Microeconomics*	3	General Education	6
General Education	7	Semester Total	15
Semester Total	16		

Note: Complete all BSBA Admission requirements and apply for admission.*

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
FIN 3850 Principles of Finance (IBE Block-below)***	3	MGT 3360 Production Operations Management	3
MGT 3315 Management of Organizations***	3	MGT 3320 System, Teams, & Organiz. Behavior	3
MKT 3405 Marketing Policy***	3	MGT 3325 Business Communications	3
CIS 3630 Management Information Systems***	3	HRM 3920 Human Resource Management	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	FIN 3801 Business Statistics II	3
Semester Total	15	Semester Total	15

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
MGT 4370 Supply Chain Management	3	ICAP 4357 Organizational Policy & Strategy	3
MGT 4310 Total Quality Management	3	MGT 4320 Leading & Managing Teams & Org.	3
MGT 4325 Management Communication	3	Free Choice Electives (internship recommended)	6
Free Choice Electives (internship recommended)	6	MGT 3345 International Management	1
Semester Total	15	Semester Total	13

Management Major, B.S.B.A. Degree - 120 Hours

- *Students in this major must complete eight preadmission courses, with 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, ECON 1010 and 1011, and junior standing.
- A 2.25 cumulative GPA is required for graduation with in this major.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Administration
Department of Marketing and Legal Studies

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 Department of Marketing and Legal Studies' 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, telecommunication, 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 Administration student use. Excellent software is also available, and programming assistance may be obtained for special projects. Marketing classes are offered in newly renovated classrooms in the Ward Edwards Building. These facilities include a suite equipped for sales training and focus group research applications. Faculty offices for Central Missouri's Harmon College of Business Administration are housed in the historic Dockery Building.

To Learn More

For more information, write to the Department of Marketing and Legal Studies, UCM, Dockery 200, Warrensburg, MO 64093, call 660-543-4815 or visit the department's web pages at www.ucmo.edu/market/.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Marketing Major, B.S.B.A. Degree (46-269)

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<p>Freshman Year - Fall Semester MATH 1111 College Algebra* BTE 1210 Essentials of Managing Information* ENGL 1020 Composition I PSY 1100 Gen. Psych. or SOC 1800 Gen. Soc. General Education Semester Total MKT 1400 Orientation to Marketing**</p>	<p>Hrs. 3 2 3 3 3 3 14 1</p>	<p>Freshman Year - Spring Semester ECON 1010 Principles of Macroeconomics* CIS 1605 Business Application Software ENGL 1030 Composition II COMM 1000 Public Speaking General Education Semester Total</p>	<p>Hrs. 3 2 3 3 6 17</p>
<p>Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* FIN 2801 Business Statistics I* ECON 1011 Principles of Microeconomics* General Education Semester Total</p>	<p>Hrs. 3 3 3 7 16</p>	<p>Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* BLAW 2720 Legal Environment of Business* General Education Semester Total Note: Complete all B.S.B.A. Admission requirements and apply for admission.*</p>	<p>Hrs. 3 3 9 15</p>
<p>Junior Year - Fall Semester MKT 3405 Marketing Policy MGT 3315 Management of Organizations FIN 3801 Business Statistics II FIN 3850 Principles of Finance CIS 3630 Management Information Systems Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>	<p>Junior Year - Spring Semester MKT 3480 Consumer Behavior MKT 3430 Professional Sales MGT 3325 Business Communications MGT 3360 Production/Operation Management Marketing Major Elective*** Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>
<p>Senior Year - Fall Semester MKT 4460 International Marketing MKT 4470 Marketing Research Marketing Major Electives*** Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 6 5 17</p>	<p>Senior Year - Spring Semester ICAP 4357 Organizational Policy & Strategy MKT 4490 Marketing Management Marketing Major Electives*** Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 6 3 15</p>

Marketing Major, B.S.B.A. Degree - 124 Hours

- *Students in this major must complete eight preadmission courses, with 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 3460, MKT 4420, MKT 4430, MKT 4440, MKT 4450. See Department Chair for advice on major electives.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Mathematics and Computer Science

Mathematics

BACHELOR OF ARTS 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, 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.

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

University of Central Missouri • Four-Year Academic Guide

Mathematics Major, B.A. Degree (42-453)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
CS 1100 Computer Programming I	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I	5	MATH 2410 Discrete Mathematics	3
Modern Language Requirement*	3	Modern Language Requirement*	3
Semester Total	14	Semester Total	14
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
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	6	General Education	9
Modern Language Requirement*	3	Semester Total	15
Semester Total	15		
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
MATH 3311 Intro. to Mathematical Statistics***	3	MATH or CS Major Elective#	3
MATH 3720 Algebraic Structures***	2	General Education	3
General Education	9	Free Choice Electives	10
Free Choice Elective	2	Semester Total	16
Semester Total	16		
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
MATH 4180 Advanced Calculus***	3	ICAP 4233 Sci., Hist., Socio. Impact of Math***	3
General Education	6	Free Choice Electives	12
Free Choice Electives	6	Semester Total	15
Semester Total	15		

Mathematics Major, B.A. Degree - 120 hours

- *Refer to the Bachelor's Degree Requirements section for the B.A. Modern Language requirement. 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 class is only offered during the semester indicated.
- #Choose six hours of Major Electives from the list in the 2009 Undergraduate Catalog. Upper level electives (3000/4000) are strongly recommended 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 MAPP test 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 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.

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To Learn More

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

University of Central Missouri • Four-Year Academic Guide

Mathematics Major, B.S. Degree (43-454)

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Freshman Year - Fall Semester ENGL 1020 Composition I CS 1100 Computer Programming I MATH 1151 Calculus & Analytic Geometry I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 5 3 14 1	Freshman Year - Spring Semester ENGL 1030 Composition II MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics General Education Semester Total	Hrs. 3 5 3 4 15
Sophomore Year - Fall Semester MATH 2153 Calculus & Analytic Geometry III MATH 3710 Linear Algebra General Education Semester Total	Hrs. 3 3 9 15	Sophomore Year - Spring Semester MATH 3151 Differential Equations** MATH or CS Major Elective*** General Education Semester Total	Hrs. 3 3 9 15
Junior Year - Fall Semester MATH 3311 Intro. to Mathematical Statistics** MATH 3720 Algebraic Structures I** General Education Semester Total	Hrs. 3 2 11 16	Junior Year - Spring Semester MATH 4710 Algebraic Structures II** MATH or CS Major Elective*** Free Choice Electives Semester Total	Hrs. 2 3 10 15
Senior Year - Fall Semester MATH 4180 Advanced Calculus** Free Choice Electives Semester Total	Hrs. 3 12 15	Senior Year - Spring Semester ICAP 4233 The Sci., Hist., Socio. Impact of Math** MATH or CS Major Elective*** Free Choice Electives Semester Total	Hrs. 3 3 9 15

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.
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- To satisfy the General Education Assessment Policy students must take the MAPP test 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 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.

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

University of Central Missouri • Four-Year Academic Guide

Mathematics Major, B.S. in Ed. Degree (41-459)

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<p>Freshman Year - Fall Semester</p> <p>MATH 1151 Calculus & Analytic Geometry I MATH 1850 Orientation Seminar* CS 1100 Computer Programming I ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar**</p>	<p>Hrs.</p> <p>5 0.5 3 3 3 14.5 1</p>	<p>Freshman Year - Spring Semester</p> <p>MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics ENGL 1030 Composition II HIST 1350 or 1351 U.S. History Semester Total</p>	<p>Hrs.</p> <p>5 3 3 3 14</p>
<p>Sophomore Year - Fall Semester</p> <p>MATH 2221 Foundations of Geometry* MATH 3710 Linear Algebra EDFL 2100 Foundations of Education EDFL 2240 Educational Psychology FLDX 2150 Introductory Field Experience General Education Science w/lab*** Semester Total</p>	<p>Hrs.</p> <p>3 3 2 3 1 4 16</p>	<p>Sophomore Year - Spring Semester</p> <p>MATH 4851 Prob./Stat., Mid./High School Math* General Education POLS 1510 American Government Semester Total</p>	<p>Hrs.</p> <p>3 9 3 15</p>
<p>Junior Year - Fall Semester</p> <p>MATH 3720 Algebraic Structures* MATH 3850 Strategies in Teaching Sec. Math* MATH 4861 Advanced Persp. on HS Mathematics* PSY 4230 Adolescent Psychology General Education Semester Total</p>	<p>Hrs.</p> <p>2 3 3 3 5 16</p>	<p>Junior Year - Spring Semester</p> <p>MATH 4710 Real Number System* ICAP 4233 The Sci., Hist, Soc. Impact of Math* EDFL 4210 Teaching Reading in Secondary EDSP 2100 Education of the Exceptional Child or PSY 4200 Psy. of the Exceptional Child General Education Semester Total</p>	<p>Hrs.</p> <p>2 3 2 2 6 16</p>
<p>Senior Year - Fall Semester</p> <p>EDFL 3500 Sec. Teaching & Behav. Management FLDX 3550 Practicum in Secondary Instruction EDFL 4300 Educational Measurement & Evaluation Free Choice Electives Semester Total</p>	<p>Hrs.</p> <p>3 1 2 10.5 16.5</p>	<p>Senior Year - Spring Semester</p> <p>MATH 4820 Secondary Field Experience II MATH 4870 Methods of Teaching Math FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs.</p> <p>1 2 5 4 12</p>

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.
- 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 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.



College of Science and Technology
Department of Biology and Earth Science

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.

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. Biology and Earth Science Web pages may be accessed through UCM's site.

University of Central Missouri • Four-Year Academic Guide

Medical Technology, B.S. Degree (43-384)

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Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology BIOL 1110 Principles of Biology CHEM 1131 General Chemistry I MATH 1111 College Algebra ENGL 1020 Composition I Semester Total	Hrs 1 3 5 3 3 15	Freshman Year -Spring Semester BIOL 1112 Animal Biology CHEM 1132 General Chemistry II ENGL 1030 Composition II General Education Semester Total	Hrs 4 5 3 5-6 17-18
Sophomore Year - Fall Semester BIOL 2401 Anatomy & Physiology I BIOL 2511 Genetics ET 1020 General Electronics General Education Semester Total	Hrs 4 4 3 6 17	Sophomore Year - Spring Semester BIOL 2402 Anatomy & Physiology II CHEM 3341 Organic Chemistry I MATH 1112 College Trigonometry (2) or PSY 4520 Statistics for Behavioral Sci. (3) General Education Semester Total	Hrs 4 4 2-3 6 16-17
Junior Year - Fall Semester BIOL 4000 Biology Colloquium BIOL 4311 Parasitology BIOL 4514 Molecular Biology CHEM 3212 Quantitative Analysis General Education Semester Total	Hrs 1 4 3 3 6 17	Junior Year - Spring Semester BIOL 3413 Immunology BIOL 3611 Microbiology BIOL 4515 Molecular Biology Lab ICAP 4222 The Biological Perspectives General Education Semester Total	Hrs 3 4 2 3 6 18
Senior Year - Summer Semester BIOL 4015 Clinical Immunohematology BIOL 4016 Clinical Urinalysis Semester Total	Hrs 4 2 6		
Senior Year - Fall Semester BIOL 4017 Clinical Microbiology BIOL 4018 Clinical Immunology Semester Total	Hrs 7 5 12	Senior Year - Spring Semester BIOL 4019 Clinical Biochemistry BIOL 4020 Clinical Hematology BIOL 4021 Clinical Special Topics Semester Total	Hrs 7 4 1 12

Medical Technology, B.S. Degree - 130-131 hours

- To satisfy the General Education Assessment Policy students must take the MAPP test 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. In the senior year, they may 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 Curriculum and Instruction 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 middle school 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, 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 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, middle school 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 Educational Foundations and Literacy, UCM, Lovinger 3300, Warrensburg, MO 64093; call 660-543-4235; or visit www.ucmo.edu/cehs/currinst/.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's web address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Middle School Education Major, B.S. in Ed. Degree (41-840)

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<p>Freshman Year - Fall Semester</p> <p><i>ENGL 1020 Composition I</i> 3 COMM 1000 Public Speaking <i>POLS 1510 American Government</i> 3 ART 1800, MUS 1210, or THEA 2400 3 Modern Language - CD 1401, CHIN, FREN, GER, or SPAN 3 Semester Total 15</p>	<p>Hrs.</p>	<p>Freshman Year - Spring Semester</p> <p><i>ENGL 1030 Composition II</i> 3 <i>HIST 1350 or 1351 U.S. History</i> 3 <i>MATH 1620 Contemporary Math</i> 4 <i>General Education Science w/lab</i> 2-3 Semester Total 15-16</p>	<p>Hrs.</p>
<p>Sophomore Year - Fall Semester</p> <p>EDFL 2100 Foundations of Education 3 FLDX 2150 Introductory Field Experience 1 EDFL 2240 Education Psychology 3 ECEL 2310 Computer/Technology in Education 2 EDSP 2100 Education of Exceptional Child or PSY 4200 Psychology of Exceptional Child 2 MATH 3812 Mathematics in the Integ. MS Cur.* 3 Teaching Minor 3 Semester Total 16</p>	<p>Hrs.</p>	<p>Sophomore Year - Spring Semester</p> <p>ECEL 1310 or 1320 Science for Teachers Req. 3 EDFL 3210 Methods of Reading Instruction 3 ENGL 2200, 2205, 2210, 2215, or 2220 3 PSY 4230 Psychology of Adolescence 3 Teaching Minor 6 Semester Total 18</p>	<p>Hrs.</p>
<p>Junior Year - Fall Semester</p> <p>ECEL 2110 World Diversity & America 3 ECEL 3220 The Teaching of Language Arts 3 EDFL 3440 Literature for the Middle Level 2 GEOG 2212 World Geography 3 HED 4310 Drugs & Youth 3 Teaching Minor 3 Semester Total 17</p>	<p>Hrs.</p>	<p>Junior Year - Spring Semester</p> <p>EDFL 3230 Content Literacy in Middle Schools 3 EDFL 4130 The Middle School 3 HED 4330 First Aid & CPR for Educators 1 HED 4320 Teaching Sexuality Educ. in the School 3 IGEN 3468 Home/School/Community Relations 3 Teaching Minor 3 Semester Total 16</p>	<p>Hrs.</p>
<p>Senior Year - Fall Semester</p> <p>EDFL 4220 Analysis & Corr. Reading Disability 2 EDFL 4250 Practicum in Reading 1 EDFL 4340 Teaching Strategies in Middle School 3 EDFL 4300 Education Measurement & Evaluation 2 Special Methods Class for Minor Area 2-3 Teaching Minor 6 Semester Total 16-17</p>	<p>Hrs.</p>	<p>Senior Year - Spring Semester</p> <p>FLDX 4497 Student Teaching Middle School I 6 FLDX 4498 Student Teaching Middle School II 6 Semester Total 12</p>	<p>Hrs.</p>

Middle School Education Major, B.S. in Ed. Degree - 125 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.**
- A teaching minor is an area of concentration for which UCM sponsors certification. These include: art, business education, English, French, family and consumer sciences, German, instructional technology, math, science, social studies, Spanish, 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 and prior to taking 4000-level Education courses.
- See 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.



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.

University of Central Missouri • Four-Year Academic Guide

Music Major, B.A. Degree (42-436)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester		Hrs.	Freshman Year - Spring Semester		Hrs.
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fund. of Music or Free Choice Elective		3	Major Large Ensemble		1
Major Large Ensemble		1	Major Instrument or Voice, 1000 Level		1
Major Instrument or Voice, 1000 Level		1	MUS 1111 Theory I		3
ENGL 1020 Composition I		3	MUS 1121 Aural Training I		1
MUS 1225 Music of the World's Cultures		3	ENGL 1030 Composition II		3
Modern Language Requirement*		3	General Education		3
Semester Total		14	Modern Language Requirement*		3
AE 1400 Freshman Seminar**		1	Semester Total		15

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
ENGL 2220 World Masterpieces		3	MUS 1000 Recital Attendance		0
MUS 1000 Recital Attendance		0	Major Instrument or Voice, 1000 Level		1
Major Instrument or Voice, 1000 Level		1	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	Course in Minor		3
General Education		6	General Education		6-7
Semester Total		16	Semester Total		16-17

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
Major Instrument or Voice, 3000 Level		1.5	Major Instrument or Voice, 3000 Level		1.5
MUS 3211 Music History to 1800		3	MUS 3212 Music History 1800-Present		3
General Education		6	General Education		5-6
Courses in Minor		6	Courses in Minor		6
Semester Total		16.5	Semester Total		15.5-16.

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
Major Instrument or Voice, 3000 Level		1.5	Major Instrument or Voice, 3000 Level		1.5
Elective in Music		3	Course in Minor		3
Course in Minor		3	General Education (IGEN/ICAP)		3
Free Choice Electives		8	Free Choice Electives		7
Semester Total		15.5	Semester Total		14.5

Music Major, B.A. Degree - 124 hours

- *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 MAPP test 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

BACHELOR OF MUSIC DEGREE

The Bachelor of Music degree with a functional 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.

University of Central Missouri • Four-Year Academic Guide

Music Major, B.M. Degree (44-472)

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<p>Freshman Year - Fall Semester MUS 1000 Recital Attendance MUS 1100 Fund. of Music or Free Choice Elec. Major Instrument or Voice, 1000 Level Major Large Ensemble (Piano) ENGL 1020 Composition I General Education Semester Total</p>	<p>Hrs. 0 3 2 1 (1) 3 6-7 15-17</p>	<p>Freshman Year - Spring Semester MUS 1000 Recital Attendance Major Instrument or Voice, 1000 Level Major Large Ensemble MUS 1111 Theory I MUS 1121 Aural Training (Piano) ENGL 1030 Composition II MUS 1225 Music of the World's Cultures General Education Semester Total</p>	<p>Hrs. 0 2 1 3 1 (1) 3 3 3 16-17</p>
<p>Sophomore Year - Fall Semester MUS 1000 Recital Attendance Major Large Ensemble Major Instrument or Voice, 1000 Level (Piano) MUS 1112 Theory II MUS 1122 Aural Training II MUS 2300 Fundamentals of Conducting Emphasis Area Electives* General Education Semester Total</p>	<p>Hrs. 0 1 2 (1) 3 1 2 3 6 18-19</p>	<p>Sophomore Year - Spring Semester MUS 1000 Recital Attendance Major Large Ensemble Major Instrument or Voice, 1000 Level (Piano) MUS 2111 Theory III MUS 2121 Aural Training III Emphasis Area Electives* General Education Semester Total</p>	<p>Hrs. 0 1 2 (1) 3 1 3 6 16-17</p>
<p>Junior Year - Fall Semester MUS 1000 Recital Attendance Major Instrument or Voice, 3000 Level MUS 2112 Theory IV MUS 2122 Aural Training IV MUS 3211 Music History to 1800 Emphasis Area Electives* General Education Semester Total</p>	<p>Hrs. 0 3 3 1 3 3 3 16</p>	<p>Junior Year - Spring Semester MUS 1000 Recital Attendance Major Instrument or Voice, 3000 Level MUS 3212 Music History 1800-Present Emphasis Area Electives* General Education Semester Total</p>	<p>Hrs. 0 3 3 6 3 15</p>
<p>Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 4125 Form & Analysis Major Instrument or Voice, 3000 Level Emphasis Area Electives* General Education Semester Total</p>	<p>Hrs. 0 3 3 5-9 3 14-18</p>	<p>Senior Year - Spring Semester MUS 1000 Recital Attendance Major Instrument or Voice, 3000 Level Senior Recital Emphasis Area Electives* General Education Semester Total</p>	<p>Hrs. 0 1.5 1 7.5-9 6 16-18</p>

Music Major, B.M. Degree - 127.5 hours

- Emphases available: Jazz-Commercial Music, Music Technology, Performance, and Piano Pedagogy.
- *The number of Emphasis Area Electives required will depend on the emphasis area chosen. Hours range from 27.5-33.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

Undergraduate students who want to teach music may earn a Bachelor of Music Education degree with options in instrumental music or vocal music. The BME provides certification to teach either instrumental or vocal music in grades pre-kindergarten through 12.

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

Central Missouri has been successful in placing graduates in prestigious teaching, performing and other music-related careers. UCM 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 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 in February, or by appointment.

Performing Groups

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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. Music education courses prepare students for teaching careers.

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.

University of Central Missouri • Four-Year Academic Guide

Music Education Major (Instrumental Option), B.M.E. Degree (45-440)

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<p>Freshman Year - Fall Semester</p> <p>MUS 1000 Recital Attendance (MUS 1100 Fundamentals of Music) Major Large Instrumental Ensemble Major Instrument, 1000 Level (Piano) Instrument Techniques Class: (see list) ENGL 1020 Composition I General Education POLS 1510 American Government Semester Total</p>	<p>Hrs.</p> <p>0 (3) 1 1 (1) 1 3 3 3 12-16</p>	<p>Freshman Year - Spring Semester</p> <p>MUS 1000 Recital Attendance Major Large Instrumental Ensemble Major Instrument, 1000 Level MUS 1111 Theory I MUS 1121 Aural Training I (Piano) Instrument Techniques Class: (see list) ENGL 1030 Composition II MUS 1225 Music of the World's Cultures General Education Science w/lab Semester Total</p>	<p>Hrs.</p> <p>0 1 1 3 1 (1) 1 3 3 4 17-18</p>
<p>Sophomore Year - Fall Semester</p> <p>MUS 1000 Recital Attendance Major Large Instrumental Ensemble Major Instrument, 1000 Level Instrument Techniques Class: (see list) (Piano) MUS 1112 Theory II MUS 1122 Aural Training II HIST 1350 or HIST 1350 U.S. History General Education Semester Total</p>	<p>Hrs.</p> <p>0 1 1 1 (1) 3 1 3 6 16-17</p>	<p>Sophomore Year - Spring Semester</p> <p>MUS 1000 Recital Attendance Major Large Instrumental Ensemble Major Instrument, 1000 Level Instrument Techniques Class: (see list) (Piano) MUS 2111 Theory III MUS 2121 Aural Training III EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology General Education Semester Total</p>	<p>Hrs.</p> <p>0 1 1 (1) 3 1 3 2 1 3 3 17-18</p>
<p>Junior Year - Fall Semester</p> <p>MUS 1000 Recital Attendance Major Large Instrumental Ensemble Major Instrument, 3000 Level Instrument Techniques Class: (see list) MUS 2112 Theory IV MUS 2122 Aural Training IV MUS 3211 Music History to 1800 MUS 2300 Fundamentals of Conducting MUS 3308 Marching Band Techniques PSY 4230 Psychology of Adolescence General Education Semester Total</p>	<p>Hrs.</p> <p>0 1 1.5 1 3 1 3 2 1 3 2-3 18.5-19.5</p>	<p>Junior Year - Spring Semester</p> <p>MUS 1000 Recital Attendance Major Large Instrumental Ensemble Major Instrument, 3000 Level Instrument Techniques Class: (see list) MUS 4115 Instrumentation MUS 3212 Music History 1800-Present MUS 3420 Instrumental Conducting MUS 3306 Methods of Teaching Instrum. Mus. MUS 4381 Jazz Pedagogy Semester Total</p>	<p>Hrs.</p> <p>0 1 1.5 1 3 3 3 3 2 17.5</p>
<p>Senior Year - Fall Semester</p> <p>MUS 1000 Recital Attendance Major Large Instrumental Ensemble Major Instrument, 3000 Level Instrument Tech Class: (see list) EDFL 3500 Sec. Teaching & Behavioral Management FLDX 3550 Practicum in Secondary Instruction EDFL 4210 Teaching Reading in Sec. School EDFL 4300 Educational Measurement & Evaluation MUS 1601 Voice Class I PSY 4200 Psychology of Exceptional Children or EDSP 2100 Education of the Exceptional Child General Education Semester Total</p>	<p>Hrs.</p> <p>0 1 1.5 1 3 1 2 2 1 2 3 17.5</p>	<p>Senior Year - Spring Semester</p> <p>MUS 4310 Methods of Teaching Music MUS 4350 Secondary Field Experience II FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs.</p> <p>2 1 5 4 12</p>

Music Education Major (Instrumental Option), B.M.E. Degree – 129.5 hours

- 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 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 Arts, Humanities, and
Social Sciences**
Department of Music

Music Education

VOCAL MUSIC OPTION, BACHELOR OF MUSIC EDUCATION DEGREE

Undergraduate students who want to teach music may earn a Bachelor of Music Education degree with options in instrumental music or vocal music. The BME provides certification to teach either instrumental or vocal music in grades pre-kindergarten through 12.

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

Central Missouri has been successful in placing graduates in prestigious teaching, performing and other music-related careers. UCM 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 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 in February, or by appointment.

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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. Music education courses prepare students for teaching careers.

To Learn More

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University of Central Missouri • Four-Year Academic Guide

Music Education Major (Vocal Option), B.M.E Degree (45-441)

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<p>Freshman Year - Fall Semester MUS 1000 Recital Attendance (MUS 1100 Fundamentals of Music) Major Large Vocal Ensemble MUS 1610 Voice 1 (Piano) ENGL 1020 Composition I MUS 1225 Music of the World's Cultures General Education Science w/lab Semester Total</p>	<p>Hrs. 0 (3) 1 1 (1) 3 3 4 12-16</p>	<p>Freshman Year - Spring Semester MUS 1000 Recital Attendance Major Large Vocal Ensemble MUS 1610 Voice 1 MUS 1111 Theory I MUS 1121 Aural Training I (Piano) ENGL 1030 Composition II General Education Math POLS 1510 American Government General Education Semester Total</p>	<p>Hrs. 0 1 1 3 1 (1) 3 3 3 3 18-19</p>
<p>Sophomore Year - Fall Semester MUS 1000 Recital Attendance Major Large Vocal Ensemble MUS 1610 Voice 1 MUS 2300 Fundamentals of Conducting (Piano) MUS 1112 Theory II MUS 1122 Aural Training II MUS 2221 Introduction to Music Literature I HIST 1350 or 1351 US History General Education Semester Total</p>	<p>Hrs. 0 1 1 2 (1) 3 1 2 3 3 16-17</p>	<p>Sophomore Year - Spring Semester MUS 1000 Recital Attendance Major Large Vocal Ensemble MUS 1610 Voice 1 (Piano) MUS 2111 Theory III MUS 2121 Aural Training III MUS 2222 Intro. to Music Literature II MUS 2632 Diction for Singers EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology MUS 3410 Choral Conducting Semester Total</p>	<p>Hrs. 0 1 1 (1) 3 1 2 2 2 1 3 2 18-19</p>
<p>Junior Year - Fall Semester MUS 1000 Recital Attendance Major Large Vocal Ensemble MUS 3610 Voice II MUS 2112 Theory IV MUS 2122 Aural Training IV MUS 3211 Music History to 1800 MUS 3415 Choral Techniques MUS 1615 Opera Theatre or MUS 1620 Music Theatre Practicum I MUS 3305 Methods of Teach. Elem. School Music General Education Semester Total</p>	<p>Hrs. 0 1 1.5 3 1 3 2 1 3 2-3 17.5-18.5</p>	<p>Junior Year - Spring Semester MUS 1000 Recital Attendance Major Large Vocal Ensemble MUS 3610 Voice II MUS 3212 Music History 1800-Present MUS 4230 Choral Literature EDFL 4210 Teaching Reading in Sec. Schools PSY 4230 Psychology of Adolescence General Education Semester Total</p>	<p>Hrs. 0 1 1.5 3 2 2 3 6 18.5</p>
<p>Senior Year - Fall Semester MUS 1000 Recital Attendance Major Large Vocal Ensemble MUS 3610 Voice II MUS 4130 Choral Arranging MUS 4320 Methods of Teach Middle School Music EDFL 3500 Sec. Teaching & Behavioral Mgt. FLDX 3550 Practicum in Secondary Instruction PSY 4200 Psychology of Exceptional Children or EDSP 2100 Education of the Exceptional Child EDFL 4300 Educational Measurement & Eval. General Education Semester Total</p>	<p>Hrs. 0 1 1.5 2 2 3 1 2 2 3 17.5</p>	<p>Senior Year - Spring Semester MUS 4310 Methods of Teaching Music MUS 4350 Secondary Field Experience II FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs. 2 1 5 4 12</p>

Music Education Major (Vocal Option), B.M.E. Degree – 129.5 hours

- 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 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 and Human Services 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 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, having completed 64 hours. The Application Packet is due July 1 for spring admission and by January 1 for fall admission. Requirements to be met are completing 27 semester hours of nursing prerequisites and 44 semester hours of 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; 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 web site at www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Nursing Major, B.S. Degree (43-133)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester		Hrs.	Freshman Year - Spring Semester		Hrs.
CHEM 1104 Intro to Sciences: Chemistry*		4	BIOL 2401 Anatomy & Physiology I*		4
SOC 1800 General Sociology*		3	PSY 1100 General Psychology*		3
ENGL 1020 Composition I		3	ENGL 1030 Composition II		3
General Education		3	General Education		5-6
NUR 1700 Introduction to Professional Nursing**		1			
Semester Total		14	Semester Total		15-16

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
BIOL 2402 Anatomy & Physiology II*		4	BIOL 3610 Microbiology*		3
D&N 3340 Nutrition*		3	NUR 2700 Professional Nursing Seminar**		1
General Education		9	General Education		9
Semester Total		16	Nursing Elective***		2
			Semester Total		15

-- ENTER NURSING PROGRAM --

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
NUR 3304 Assessment Across the Lifespan#		2	NUR 3510 Concepts of Gerontic Nursing		2
NUR 3305 Assessment Across the Lifespan Lab		1	NUR 3610 Con. of Adult & Older Adult Nursing I		3
NUR 3410 Concepts of Nursing in Wellness		3	NUR 3611 Con. of Ad. & Old. Ad. Nrsng I Pract.		4
NUR 3411 Con. of Nursing in Wellness Practicum		2	NUR 3612 Technical Nursing Applications II		2
NUR 3200 Pathophysiology		4	NUR 4012 Evidence-based Practice		2
NUR 3210 Pharmacological Therapeutics		3	NUR 4013 Health Policy & Ethics		2
NUR 3412 Technical Nursing Applications I		1	Semester Total		15
Semester Total		16			

-- TO KANSAS CITY LAST TWO SEMESTERS --

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
ICAP 4111 Socio-Econ Factors Impacting Health		3	NUR 4600 Con. of Nursing Ldship in Mgmt CH/MH		6
NUR 4410 Concepts of Maternal-Child Nursing		3	NUR 4601 Con. of Nursing Leadership in Mgmt. Comm. Health/Mental Health Practicum		6
NUR 4411 Con. of Maternal-Child Nursing Pract.		2	NUR 4602 Synthesis of Nursing Concepts		1
NUR 4510 Concepts of Adult/Older Ad. Nursing II		3	Semester Total		13
NUR 4511 Con. of Ad./Old. Ad Nrsng. II Pract.		3			
NUR 4512 Adv. Tech. & Pharm. Nursing Apps.	Semester	2			
Total		16			

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 2020 Health: The Women's Prospective; NUR 3010 Nursing Leadership in Service Learning; NUR 4020 Grief and Loss; NUR 4030 Human Sexuality; NUR 4040 Nursing Informatics; NUR 4405 Aging of Self and Others; .
- #NUR 3304 may be taken prior to entry into the program or Fall Semester in the Nursing program.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 trade and technical 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 trade and industrial 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, weekend format on and off campus, 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.

For admission information, call toll free 877-SAY-UCMO (877-729-8266). UCM's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Occupational Education Major, B.S. Degree (43-249)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CTE 2000 Technology & Society ENGL 1020 Composition I General Education MATH Teaching Specialty Area General Education Semester Total	Hrs. 3 3 3 3 3 15	Freshman Year - Spring Semester ENGL 1030 Composition II General Education Teaching Specialty Area Semester Total	Hrs. 3 6 6 15
Sophomore Year - Fall Semester CTE 3060 Technical Writing General Education EDFL 2240 Educational Psychology Teaching Specialty Area Semester Total	Hrs. 3 7 3 3 16	Sophomore Year - Spring Semester GRAP 4570 Computer Graphics General Education Teaching Specialty Area Semester Total	Hrs. 3 6 6 15
Junior Year - Fall Semester CTE 4145 Curriculum Construction in CTE PSY 4200 Psychology of the Exceptional Child General Education Teaching Specialty Area Semester Total	Hrs. 3 2 6 6 17	Junior Year - Spring Semester CTE 4110 Foundations of Career & Tech. Educ. or CTE 4140 New Teacher Institute CTE 4180 Adult Programs or EDFL 3500 Secondary Teaching/Behavioral Mgt. General Education Teaching Specialty Area Semester Total	Hrs. 3 3 3 4-5 13-14
Senior Year - Fall Semester CTE 4160 Methods of Teaching Career & Tech. Ed. IGEN 3116 Creative Problem Solving General Education Teaching Specialty Area Semester Total	Hrs. 3 3 3 6 15	Senior Year - Spring Semester CTE 4022 Occ. Admin./Teaching Internship CTE 4150 Vocational Guidance General Educ. or BTE 4241 Coord. of Cooperative Edu. Prog. CTE 4165 Performance Assessment in CTE Teaching Specialty Area Semester Total	Hrs. 3 2-3 3 6 14-15

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 MAPP test 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 and Human Services
Department of Safety 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 Department of Safety Sciences' 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 Department of Safety Sciences has 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 Department of Safety Sciences has 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 departmental 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 sciences 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 Department of Safety Sciences also offers 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, write to the Department of Safety Sciences, Humphreys 327, UCM, Warrensburg, MO 64093, or call 1-660-543-4626. The department's web address is www.ucmo.edu/ss and its email address is safety@ucmo.edu.

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

University of Central Missouri • Four-Year Academic Guide

Occupational Safety and Health Major, B.S. Degree (43-276)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>MATH 1111 College Algebra ENGL 1020 Composition I General Education SAFE 1000 Exploring Safety Sciences Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs.</p> <p>3 3 9 1 16 1</p>	<p>Freshman Year - Spring Semester</p> <p>PSY 1100 General Psychology CHEM 1104 Intro. to the Sciences: Chemistry ENGL 1030 Composition II General Education Semester Total</p>	<p>Hrs.</p> <p>3 4 3 6 16</p>
<p>Sophomore Year - Fall Semester</p> <p>SAFE 3000 Accident Causation & Prevention SAFE 3120 Introduction to Industrial Hygiene PHYS 1104 Introduction to the Science: Physics General Education Departmentally Approved Elective Semester Total</p>	<p>Hrs.</p> <p>3 3 4 3 3 16</p>	<p>Sophomore Year - Spring Semester</p> <p>CHEM 2650 Elementary Organic & Biochemistry SAFE 3430 Industrial Hazard Control SAFE 4160 Ind. Vent. for Envir. Safety & Health General Education Semester Total</p>	<p>Hrs.</p> <p>4 3 3 3 13</p>
<p>Junior Year - Fall Semester</p> <p>BIOL 2401 Anatomy & Physiology I SAFE 4425 Safety & Health Legis. & Standards General Education Departmentally Approved Elective Semester Total</p>	<p>Hrs.</p> <p>4 3 5-6 3 15-16</p>	<p>Junior Year - Spring Semester</p> <p>SAFE 4430 Workers Compensation Legislation SAFE 4000 Ergonomics in Safety & Health SAFE 4140 Safety & Health Lab SAFE 4020 Legal Aspects of Safety & Health Free Choice Elective Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>
<p>Summer - Between Junior & Senior Year</p> <p>SAFE 4990 Internship in Safety Sciences** Semester Total</p>	<p>Hrs.</p> <p>3 3</p>		
<p>Senior Year - Fall Semester</p> <p>SAFE 4010 Accident Investigation SAFE 4035 Safety Program Management SAFE 4850 Industrial Fire Protection SAFE 4940 Statistical Analysis for Risk Mgmt. Free Choice Elective Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 2 14</p>	<p>Senior Year - Spring Semester</p> <p>SAFE 4435 Environmental Compliance SAFE 4560 Systems Safety ICAP 4115 Safety & Health Management Free Choice Elective Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 12</p>

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 MAPP test 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 of 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.

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.

University of Central Missouri • Four-Year Academic Guide

Philosophy Major, B.A. Degree (42-325)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
PHIL 1000 Introduction to Philosophy	3	PHIL 2300 Ethics	3
General Education	6	General Education	6
Modern Language Requirement*	3	Modern Language Requirement*	3
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PHIL 1400 Deductive Logic or PHIL 1410 Critical Thinking	3	ENGL 2220 World Masterpieces*	3
PHIL 3130 Hist. of Phil. II: Enlightenment Thought	3	PHIL 3120 History of Phil. I: Ancient Thought	3
General Education	3	General Education	6
Free Choice Electives	6	Free Choice Electives	3
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
General Education	3	General Education	3
PHIL Major Elective***	3	PHIL Major Elective***	3
PHIL 3600 Special Topics in Philosophy	3	PHIL 3660 Studies in Literature & Philosophy	3
Free Choice Electives	6	Free Choice Electives	6
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
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	Semester Total	15
Semester Total	15		

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 2009 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 MAPP test 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 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.

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

University of Central Missouri • Four-Year Academic Guide

Photography Major, B.S. Degree (43-228)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
PHOT 1210 Foundations of Profess. 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
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
Semester Total	16	General Education	6
AE 1400 Freshman Seminar*	1	Semester Total	16
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
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
Semester Total	15-	Semester Total	16
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
PHOT 2270 Conventional B&W Photography**	3	Photography Specialty Area Electives	6
Photography Specialty Area Elective	3	PHOT 3216 Photographer's Forum 3***	1
General Education	3	Free Choice Electives	9
Free Choice Electives	6	Semester Total	16
Semester Total	15		
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
PHOT 4200 Color Imaging	3	PHOT 4216 Photographer's Forum 4	1
Photography Specialty Area Elective	3	PHOT 4252 Portfolio Photography	3
Free Choice Electives	9	Photography Specialty Area Elective	3
Semester Total	15	IGEN 3116 Creative Problem Solving	3
		Free Choice Electives	5
		Semester Total	15

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 MAPP test 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 and Human Services
Department of Health and Human Performance

Fitness/Wellness I (Corporate Fitness)

PHYSICAL EDUCATION MAJOR, BACHELOR OF SCIENCE DEGREE

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 Health and Human Performance'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 Humphreys 208. 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, 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 Health and Human Performance, Humphreys 216, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's web page at www.ucmo.edu/hhp.

For admission information, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Physical Education Major (Corporate Fitness), B.S. Degree (43-817)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
PE 1206 Lifetime Fitness	3	ENGL 1030 Composition II	3
General Education	9	PE 1204 Stress Management	1
ENGL 1020 Composition I	3	General Education	12
Semester Total	15	Semester Total	16
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
HED 1350 Responding to Emergencies	3	ACCT 2101 Principles of Financial Accounting	3
PE 2320 Analysis & Teaching Weight Training	1	PE 4110 History & Philosophy of Physical Education	2
PE 2303 Analysis & Teaching Aerobic Conditioning	2	PE 2850 Foundations Exercise Physiology	3
PE 2800 Human Anatomy	3	PE 3610 Care & Prevention of Injuries	2
General Education	6	PSY 1100 General Psychology	3
Semester Total	15	General Education	3
		Semester Total	16

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
BLAW 2720 Legal Environment of Business	3	MKT 3420 Principles Advertising	3
MKT 3400 Principles of Marketing	3	HED 4300 Nutrition & Human Performance	2
PE 3800 Kinesiology	3	PE 4341 Physical Activity & the Older Adult	2
PE 4340 Adapted Physical Education	3	PE 4740 Legal Liability in F/W, PE Settings	2
PE 4860 Fitness Programming & Implementation	3	General Education	3
Semester Total	15	Free Choice Electives	3
		Semester Total	15

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
HED 4310 Drugs and Youth	3	PE 4765 Internship**	2-4
MKT 3430 Professional Sales	3	Free Choice Electives	10-12
PE 4850 Assessment & Eval. of Fitness/Wellness	3	Semester Total	14
General Education (IGEN/ICAP)	3		
Free Choice Electives	2		
Semester Total	14		

Physical Education (Corporate Fitness) 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.
- **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 MAPP test 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 and Human Services
Department of Health and Human Performance

Fitness/Wellness II (Exercise Science)

PHYSICAL EDUCATION MAJOR, BACHELOR OF SCIENCE DEGREE

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 Health and Human Performance'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 Humphreys 208. 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 Health and Human Performance, Humphreys 216, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's web page at www.ucmo.edu/hhp.

For admission information, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Physical Education Major (Exercise Science), B.S. Degree (43-817)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester		Hrs.	Freshman Year - Spring Semester		Hrs.
PE 1206 Lifetime Fitness		3	PE 2800 Human Anatomy		3
SOC 1800 General Sociology		3	ENGL 1030 Composition II		3
ENGL 1020 Composition I		3	General Education		9
CHEM 1104 Intro. to the Sciences: Chemistry*		4	Semester Total		15
General Education		2			
Semester Total		15			
AE 1400 Freshman Seminar**		1			

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
BIOL 2401 Anatomy & Physiology I		4	BIOL 2402 Anatomy & Physiology II		4
HED 1350 Responding to Emergencies		3	PE 2303 Anal. & Teaching of Aerobic Conditioning		2
PE 1204 Stress Management		1	PE 2850 Foundations Exercise Physiology		3
PE 2320 Analysis & Teaching of Weight Training		1	PE 3610 Care & Prevention of Injuries		2
General Education		6	General Education		3
Semester Total		15	Semester Total		14

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
D&N 3340 Nutrition		3	CHEM 1604 Elemen. Organic & Bio. (4 hrs) or		
HED 4310 Drugs & Youth		3	PHYS 1104 Intro. to Sci.: Physics (4 hrs) or		
PE 3800 Kinesiology		3	EDCI 1310 Physics for Teachers (3 hrs)		3-4
PE 4340 Adapted Physical Education		3	PE 4110 History & Philosophy of Phys. Education		2
PE 4860 Fitness Program & Implementation		3	PE 4341 Physical Activity & the Older Adult		2
Semester Total		15	PE 4740 Legal Liability in F/W, PE Settings		2
			PSY 4520 Statistics for the Behavioral Sciences		3
			General Education		3
			Semester Total		15-16

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
HED 4300 Nutrition & Human Performance		2	PE 4765 Internship***		2-4
General Education		3	General Education (IGEN/ICAP)		3
PE 4850 Assessment & Evaluation Fitness/Wellness		3	Free Choice Electives#		8-10
Free Choice Electives		8	Semester Total		15
Semester Total		16			

Physical Education Major (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 MAPP test 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 and Human Services
Department of Health and Human Performance

PHYSICAL EDUCATION (K-12 CERTIFICATION)

BACHELOR OF SCIENCE DEGREE

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 Health and Human Performance'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 Humphreys 208. 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 Health and Human Performance, Humphreys 216, UCM, Warrensburg, MO 64093 or call 660-543-4256. You can visit the department's web page at www.ucmo.edu/hhp.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's web address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Physical Education (K-12 Certification) Major, B.S. Degree (43-817)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester General Education (technology) ENGL 1020 Composition I HIST 1350 or 1351 US History PE 1206 Lifetime Fitness General Education MATH Semester Total	Hrs. 2-3 3 3 3 3 14-15	Freshman Year - Spring Semester ENGL 1030 Composition II General Education Science w/lab COMM 1000 Public Speaking General Education Semester Total	Hrs. 3 4 3 6 16
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Sophomore Year - Fall Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology PE 1450 Growth & Development in Elementary PE PE 2240 Anal. & Teaching of Indiv. & Dual Activ. PE 2800 Human Anatomy PE 3300 Teaching of Dance Semester Total	Hrs. 2 1 3 3 3 3 2 17	Sophomore Year - Spring Semester PE 2303 Anal. & Teaching of Aerobic Conditioning PE 2850 Foundations of Exercise Physiology PE 3280 Analysis & Teaching of Team Activities PSY 4230 Psychology of Adolescence General Education Semester Total	Hrs. 2 3 3 3 6 17
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Junior Year - Fall Semester EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Child PE 2290 Anal. & Teaching of Innovative Activities PE 2320 Analysis & Teaching of Weight Training PE 3430 Creative Dance & Rhythms for Elem. Sch. PE 3610 Care & Prevention of Injuries PE 3800 Kinesiology PE 3850 Motor Learning & Control PE 4110 History & Philosophy of Physical Education Semester Total	Hrs. 2 2 2 1 2 2 3 3 2 17	Junior Year - Spring Semester PE 3315 Analysis & Teach. of Outdoor Leis. Skills PE 4340 Adapted Physical Education PE 4840 Social Aspects of Physical Activity PE 4740 Legal Liability in F/W, PE Settings PE 4760 Physical Education Curriculum General Education Semester Total	Hrs. 1 3 2 2 2 6 16
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Senior Year - Fall Semester EDFL 4210 Teaching of Reading in Sec. School PE 3450 Tech. of Teach. PE Act. in Elem. Schools PE 3460 Tech. of Teach. PE Act. Mid./High Schools PE 4390 Evaluation Procedures in Phys. Education PE 4830 Psychological Aspects in Phys. Education EDFL 3500 Sec. Teaching & Behavioral Mgmt. FLDX 3550 Practicum in Secondary Instruction Semester Total	Hrs. 2 3 3 3 2 3 1 17	Senior Year - Spring Semester FLDX 4495 Student Teaching Elementary I ICAP 4468 Student Teaching Secondary II PE 4880 Methods of Teaching Phys. Education PE 4885 Secondary Field Experience Semester Total	Hrs. 5 4 2 1 12
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Physical Education (K-12 Certification) Major, B.S. Degree - 126 hours

- 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 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.



College of Science and Technology
Department of Biochemistry, Chemistry and Physics

Physics

BACHELOR OF ARTS DEGREE

The future depends greatly on how people solve the world's problems, and problem solving is what physicists do best. From work in biophysics to quantum computation, 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 these rewarding careers.

The physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience.

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 UCM's Department of 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

UCM's 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

An undergraduate degree in physics prepares students for careers in research, teaching and applied physics. A physics background is excellent preparation for pursuing degrees in engineering, medicine, law, economics, or finance, as well as for graduate study in such fields as nuclear fusion and alternative energy sources, biophysics and biomedical imaging, quantum computation and cryptography, oil and mineral exploration, atmospheric and space science, oceanography, and materials science, among others.

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 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.

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

University of Central Missouri • Four-Year Academic Guide

Physics Major, B.A. Degree (42-396)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year -Spring Semester	Hrs
CHEM 1131 General Chemistry I	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I	3	MATH 1152 Calculus & Analytical Geometry II	5
MATH 1151 Calculus & Analytical Geometry I	5	PHYS 2121 University Physics I	5
General Education (or PHYS 1101)*	3-4	Semester Total	15
Semester Total	16-17		
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ENGL 1030 Composition II	3	CS 1100 Computer Programming I	3
MATH 2153 Calculus & Analytical Geometry III	3	General Education	3
PHYS 2122 University Physics II	5	PHYS 3080 Advanced Physics Laboratory	1
PHYS 3211 Analytical Mechanics I	3	PHYS 3511 Modern Physics I	3
General Education	2	PHYS 4212 Analytical Mechanics II	3
Semester Total	16	Modern Language Requirement ***	3
		Semester Total	16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
PHYS 3080 Advanced Physics Laboratory	1	PHYS 3012 Electric Measurements Laboratory	2
PHYS Elective#	3	PHYS 3311 Electric Circuit Theory	3
Modern Language Requirement***	3	MATH 3151 Differential Equations	3
General Education	9	Modern Language Requirement***	3
Semester Total	16	General Education	3
		Semester Total	14

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
PHYS 4411 Thermodynamics	3	PHYS 3080 Advanced Physics Laboratory	1
General Education	6	PHYS Elective#	3
Free Choice Electives##	4	General Education	3
Semester Total	13	Free Choice Electives##	7
		Semester Total	14

Physics Major, B.A. Degree - 120 hours

- *Students whose high school preparation is inadequate should take PHYS 1101 during their Fall Semester at Central Missouri, prior to enrollment in PHYS 2121.
- **AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- ***Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on nine hours of modern language courses.
- #Six hours of physics electives are required. Physics electives can be selected from the following courses: PHYS 2020, PHYS 3512, PHYS 3611, PHYS 4312, PHYS 4512, PHYS 4513, PHYS 4711.
- ##For those considering graduate school in physics, the department strongly recommends that most free choice electives be Physics/Math/Computer Science/Chemistry courses. The number of free choice electives will vary depending on choices in the general education, major, and foreign language requirements.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry and Physics

Physics

BACHELOR OF SCIENCE DEGREE

The future depends greatly on how people solve the world's problems, and problem solving is what physicists do best. From work in biophysics to quantum computation, 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 these rewarding careers.

The physics degree programs at UCM provide a balanced curriculum of classroom instruction and practical laboratory experience.

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 UCM's Department of 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

UCM's 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

An undergraduate degree in physics prepares students for careers in research, teaching and applied physics. A physics background is excellent preparation for pursuing degrees in engineering, medicine, law, economics, or finance, as well as for graduate study in such fields as nuclear fusion and alternative energy sources, biophysics and biomedical imaging, quantum computation and cryptography, oil and mineral exploration, atmospheric and space science, oceanography, and materials science, among others.

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 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.

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

University of Central Missouri • Four-Year Academic Guide

Physics Major, B.S. Degree (43-397)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I CHEM 1131 General Chemistry I MATH 1151 Calculus & Analytical Geometry I General Education (or PHYS 1101)* Semester Total AE 1400 Freshman Seminar**	Hrs. 3 5 5 3-4 16-17 1	Freshman Year -Spring Semester CHEM 1132 General Chemistry II MATH 1152 Calculus & Analytical Geometry II PHYS 2121 University Physics I Semester Total	Hrs. 5 5 5 15
Sophomore Year - Fall Semester ENGL 1030 Composition II MATH 2153 Calculus & Analytical Geometry III PHYS 2122 University Physics II PHYS 3211 Analytical Mechanics I Semester Total	Hrs. 3 3 5 3 14	Sophomore Year - Spring Semester MATH 3151 Differential Equations or MATH 3160 Advanced Applied Calculus PHYS 3080 Advanced Physics Laboratory PHYS 3511 Modern Physics I PHYS 4212 Analytical Mechanics II General Education Semester Total	Hrs. 3 1 3 3 5 15
Junior Year - Fall Semester PHYS 3080 Advanced Physics Laboratory PHYS 3512 Modern Physics II PHYS Elective*** General Education Free Choice Elective# Semester Total	Hrs. 1 3 3 6 3 16	Junior Year - Spring Semester PHYS 3012 Electric Measurements Laboratory PHYS 3311 Electric Circuit Theory PHYS 4312 Electricity & Magnetism General Education Semester Total	Hrs. 2 3 3 6 14
Senior Year - Fall Semester PHYS 4411 Thermodynamics PHYS Elective*** General Education Free Choice Electives# Semester Total	Hrs. 3 3 6 4 16	Senior Year - Spring Semester PHYS 3080 Advanced Physics Laboratory General Education Free Choice Electives# Semester Total	Hrs. 1 6 7 14

Physics Major, B.S. Degree - 120 hours

- *Students whose high school preparation is inadequate should take PHYS 1101 during their Fall Semester at Central Missouri, prior to enrollment in PHYS 2121.
- **AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- ***Six hours of physics electives are required. Physics electives can be selected from the following courses: PHYS 2020, PHYS 3611, PHYS 4512, PHYS 4513, PHYS 4711.
- #For students considering graduate school in physics, the department strongly recommends that most free choice electives be physics, math, computer science, and chemistry courses. The number of free choice electives required will vary depending on choices made in the general education and major.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Science and Technology
Department of Biochemistry, Chemistry and Physics

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 UCM's Department of 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 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.

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 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.

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

University of Central Missouri • Four-Year Academic Guide

Physics Major, B.S. in Ed. Degree (41-486)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester <i>ENGL 1020 Composition I</i> <i>CHEM 1131 General Chemistry I</i> <i>MATH 1151 Calc. & Analytical Geometry I</i> General Education (or PHYS 1101)* Semester Total	Hrs. 3 5 5 3-4 16-17	Freshman Year -Spring Semester CHEM 1132 General Chemistry II PHYS 2121 University Physics I MATH 1152 Calculus & Analytical Geometry II General Education Semester Total	Hrs. 5 5 5 3 18
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Sophomore Year - Fall Semester PHYS 2122 University Physics II MATH 2153 Calculus & Analytical Geometry III EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology <i>ENGL 1030 Composition II</i> Semester Total	Hrs. 5 3 2 1 3 3 17	Sophomore Year - Spring Semester PHYS 3511 Modern Physics BIOL 1005 Intro. to Environmental Science EASC 1004 Intro. to the Sciences: Geology or EASC 3114 Meteorology CS 1100 Computer Programming I <i>HIST 1350 OR 1351 US History</i> Semester Total	Hrs. 3 3 3-4 3 3 15-16
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Junior Year - Fall Semester PHYS 3080 Advanced Physics Lab PSY 4230 Psychology of Adolescence BIOL 1111 Plant Biol. or BIOL 1110 Prin. of Biol. CTE 2000 Technology & Society General Education Semester Total	Hrs 1 3 3-4 3 6 16-17	Junior Year - Spring Semester EDFL 4210 Teaching Reading in Secondary EDFL 4300 Educational Measurement & Evaluation PHYS Elective** PHYS 3080 Advanced Physics Lab POLS 1510 American Government General Education Semester Total	Hrs 2 2 3 1 3 6 17
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Senior Year - Fall Semester EDFL 3500 Secondary Teaching & Behavioral Mgt. FLDX 3550 Practicum in Secondary Instruction EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of Exceptional Child PHYS Electives** PHYS 4050 Science Teaching Methods Semester Total	Hrs 3 1 2 6 3 15	Senior Year - Spring Semester PHYS 4080 Teaching Secondary Science FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total	Hrs 3 5 4 12
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Physics Major, B.S. in Ed. Degree - 126 hours

- *Students whose high school preparation is inadequate should take PHYS 1101 during their first year at Central Missouri.
- **Nine hours of physics electives are required. Physics electives can be selected from the following courses: PHYS 3211, PHYS 3512, PHYS 3611, PHYS 4312, or PHYS 4411.
- 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 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.



**College of Arts, Humanities and
Social Sciences**
Department of Political Science

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 Political Science 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 Political Science, 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 Political Science, Wood Building, Suite 5, UCM, Warrensburg, MO 64093; call 660-543-8948; or visit the department's Web site at www.ucmo.edu/politicalscience.

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

University of Central Missouri • Four-Year Academic Guide

Political Science Major, B.A. Degree (42-425)

This guide is valid for the 2009 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 (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I POLS 1500 Introduction to Politics Modern Language Requirement* General Education Semester Total AE 1400 Freshman Seminar**	Hrs. 3 3 3 6 15 1	Freshman Year -Spring Semester ENGL 1030 Composition II POLS 1510 American Government Modern Language Requirement* General Education Semester Total	Hrs. 3 3 3 6 15
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Sophomore Year - Fall Semester POLS Elective*** Modern Language Requirement* General Education Semester Total	Hrs. 3 3 9-10 15-16	Sophomore Year - Spring Semester POLS 2540 Survey of Political Theory POLS Elective*** General Education Semester Total	Hrs. 3 3 9 15
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Junior Year - Fall Semester POLS Elective*** General Education Free Choice Electives Semester Total	Hrs. 3 3 9 15	Junior Year - Spring Semester POLS 3560 Research Methods in Political Science POLS Concentration Area Elective Free Choice Electives Semester Total	Hrs. 3 3 9 15
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Senior Year - Fall Semester POLS Concentration Area Elective POLS Elective*** General Education (IGEN/ICAP) Free Choice Electives Semester Total	Hrs. 3 3 3 6 15	Senior Year - Spring Semester POLS Concentration Area Elective Free Choice Electives Semester Total	Hrs. 3 11-12 14-15
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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, excepting 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 MAPP test 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 Political Science

Political Science

Bachelor of Science Degree

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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.

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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 Political Science, Wood Building, Suite 5, UCM, Warrensburg, MO 64093; call 660-543-8948; or visit the department's Web site at www.ucmo.edu/politicalscience.

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

University of Central Missouri • Four-Year Academic Guide

Political Science Major, B.S. Degree (43-426)

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Freshman Year - Fall Semester ENGL 1020 Composition I POLS 1500 Introduction to Politics General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 9 15 1	Freshman Year -Spring Semester ENGL 1030 Composition II POLS 1510 American Government General Education Semester Total	Hrs. 3 3 9 15
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Sophomore Year - Fall Semester POLS Elective** General Education Semester Total	Hrs. 6 9-10 15-16	Sophomore Year - Spring Semester POLS 2540 Survey of Political Theory POLS Elective** General Education Free Choice Elective Semester Total	Hrs. 3 3 6 3 15
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Junior Year - Fall Semester POLS Elective** General Education Free Choice Electives Semester Total	Hrs. 3 3 9 15	Junior Year - Spring Semester POLS 3560 Research Methods POLS Concentration Area Elective Free Choice Electives Semester Total	Hrs. 3 3 9 15
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Senior Year - Fall Semester POLS Concentration Area Electives General Education Free Choice Electives Semester Total	Hrs. 3 3 9 15	Senior Year - Spring Semester POLS Concentration Area Elective Free Choice Electives Semester Total	Hrs. 3 11-12 14-15
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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, excepting 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 MAPP test 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 Science and Technology
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. For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Professional Pilot Major, B.S. Degree (43-554)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester		Hrs.	Freshman Year - Spring Semester		Hrs.
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
ENGL 1020 Composition I		3	MATH 1111 College Algebra		3
BTE 1210 Essentials of Managing Information or UIS 1600 University Library & Research Skills		2	ECON 1010 Principles of Macroeconomics		3
Semester Total		15	Semester Total		15
AE 1400 Freshman Seminar*		1			

Sophomore Year - Fall Semester		Hrs.	Sophomore Year - Spring Semester		Hrs.
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	EASC 3114 Meteorology or AVIA 4350 Aviation Weather		3
General Education		6	PHYS 1104 Introduction to the Sciences: Physics		4
Semester Total		15	General Education		3
			Semester Total		15

Junior Year - Fall Semester		Hrs.	Junior Year - Spring Semester		Hrs.
AVIA 4010 Aerodynamics		3	AVIA 3317 Commercial Flight F		1
PR&T 4032 Hydraulics/Pneumatics		3	AVIA 3330 Multi Engine		1
MATH 1131 Applied Calculus		3	AVIA 4500 Aviation Safety		3
AVIA 3316 Commercial Flight E		1	MGT 3315 Management of Organizations or INDM 4210 Industrial Management		3
CTE 3060 Technical Writing		3	General Education		6
General Education		3	Semester Total		14
Semester Total		16			

Senior Year - Fall Semester		Hrs.	Senior Year - Spring Semester		Hrs.
AVIA 4320 Physiology & Flying		2	AVIA 4090 Aviation Law		3
AVIA 4040 Aviation Management		3	ICAP 4113 Air Operations Management		3
AVIA 4220 Transport Aircraft Systems		2	Free Choice Electives*		2
AVIA 4370 Advanced Flight Crew Management		3	General Education		6
AVIA 4390 Part 135 OPS		3	Semester Total		14
General Education		3			
Semester Total		16			

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 MAPP test 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 Psychology

Psychology

BACHELOR OF ARTS DEGREE

The Department of Psychology Bachelor of Arts 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 (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. The department also supports 10 paid undergraduate research assistantships that promote faculty/student collaboration. Whenever possible, students are encouraged to participate in faculty research projects on a voluntary basis. 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 make research presentations at conventions of major psychological associations/societies. Two faculty members are licensed to practice psychology in the state of Missouri and one is board certified in

clinical neuropsychology.

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, National Academy of Neuropsychology, and Association for Psychological Science.

In recent years, our students have received awards for their poster and paper presentations. The Department of Psychology and UCM hosted the 26th annual Great Plains Students' Psychology Conference in 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.

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 Psychology, 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 and the department's pages begin at www.ucmo.edu/psychology/.

University of Central Missouri • Four-Year Academic Guide

Psychology Major, B.A. Degree (42-746)

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Freshman Year - Fall Semester PSY 1000 Orientation to Psychology PSY 1100 General Psychology ENGL 1020 Composition I Modern Language Requirement* General Education Semester Total	Hrs. 1 3 3 3 6 16	Freshman Year - Spring Semester ENGL 1030 Composition II General Education Modern Language Requirement* Semester Total	Hrs. 3 9 3 15
Sophomore Year - Fall Semester PSY 2110 Research Design & Analysis I General Education Modern Language Requirement* Semester Total	Hrs. 4 9 3 16	Sophomore Year - Spring Semester PSY 2120 Research Design & Analysis II PSY 2130 Learning General Education Free Choice Electives Semester Total	Hrs. 4 3 6 2 15
Junior Year - Fall Semester PSY 3130 Physiological Psychology PSY 3220 Lifespan Development General Education Free Choice Electives Semester Total	Hrs. 4 3 3 5 15	Junior Year - Spring Semester PSY 3340 Social Psychology PSY 4440 Abnormal Psychology Free Choice Electives Semester Total	Hrs. 3 3 9 15
Senior Year - Fall Semester PSY 4310 Theories of Personality Free Choice Electives Semester Total	Hrs. 3 11 14	Senior Year - Spring Semester PSY 4110 Systems of Psychology General Education (IGEN/ICAP) Free Choice Electives Semester Total	Hrs. 3 3 8 14

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.
- 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 MAPP test 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 Psychology

Psychology

BACHELOR OF SCIENCE DEGREE

The Department of Psychology 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. The department also supports ten paid undergraduate research assistantships that promote faculty/student collaboration. Whenever possible, students are encouraged to participate in faculty research projects on a voluntary basis. 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/societies. Two faculty members are

licensed to practice psychology in the state of Missouri and one is board certified in clinical neuropsychology.

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, National Academy of Neuropsychology, and Association for Psychological Science.

In recent years, our students have received awards for their poster and paper presentations. The Department of Psychology and UCM hosted the 26th 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 Psychology, 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 and the department's pages begin at www.ucmo.edu/psychology/.

University of Central Missouri • Four-Year Academic Guide

Psychology Major, B.S. Degree (43-747)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
PSY 1000 Orientation to Psychology	1	General Education	12
PSY 1100 General Psychology	3	ENGL 1030 Composition II	3
ENGL 1020 Composition I	3	Semester Total	15
General Education	9		
Semester Total	16		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
PSY 2110 Research Design & Analysis I	4	PSY 2120 Research Design & Analysis II	4
General Education	9	PSY 2130 Learning	3
Free Choice Electives	2	General Education	6
Semester Total	15	Free Choice Elective	2
		Semester Total	15
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
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	Semester Total	15
Semester Total	15		
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
PSY Major Electives*	6	Free Choice Electives	9
Free Choice Electives	6	PSY Major Electives*	3
Semester Total	15	Semester Total	15

Psychology Major, B.S. Degree - 120 hours

- *See the 2009 Undergraduate Catalog for a list of courses that fulfill major electives for the degree.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

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. The U.S. Bureau of Labor Statistics estimates that there are 200,000 practicing public relations professionals nationwide, while The Global Alliance estimates there are 3 million people worldwide practicing public relations. 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.). You will be among some of the most sought after communication professionals in the industry. On average, your starting salary will be higher than most of your other communication colleagues.

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, just to name a few. 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 Hospital & Clinics, for higher education institutions, and the state legislature. More have taken positions with well-known agencies such as Bernstein-Rein, Kuhn & Whittenborn, Weber-Shandwick, and Fleishmann-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 "The 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.

Student Involvement

UCM students are encouraged to take part in co-curricular activities that relate to their major. In addition to the Robert Kendall Chapter of Public Relations Student Society of America, the second-oldest campus chapter in the nation, students may also participate in Central Communications, a student-operated public relations firm.

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.

The Department of Communication promotes undergraduate and graduate

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

Beneficial experience for public relations majors can be gained at the Department of Communication'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.

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

Faculty

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

To Learn More

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

For admission information, call 1-877-SAY-UCMO (877-729-8266). UCM's web site is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Public Relations Major, B.S. Degree (43-351)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
COMM 1100 Intro. to Communication Studies	1	COMM 2625 Writing & Editing for Public Relations	3
COMM 2620 Introduction to Public Relations	3	General Education	9
General Education	8-9	Semester Total	15
Semester Total	15-16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 1000 Public Speaking	3	COMM 2100 Intro. to Communication Theory	3
Coursework for Minor	3	COMM 3010 Interpersonal Communication	3
General Education	9	COMM 3620 Strategic Planning for Public Relations	3
Semester Total	15	General Education	3-4
		Coursework for Minor	3
		Semester Total	15-16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 3100 Communication Research Methods	3	COMM 3000 Film Appreciation	3
COMM 3625 Design & Layout for Publications	1	COMM 4510 Magazine Design & Production	3
COMM 4250 Mass Communication Law	3	COMM 4685 Case Studies in Public Relations	2
Coursework for Minor	3	COMM Electives*	5
COMM 4680 Publicity	3	Free Choice Electives	3
Free Choice Electives	3	Semester Total	16
Semester Total	16		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
COMM 4295 Internship	3	COMM 4690 Campaigns	3
IGEN 3224 or 3232 or 4224	3	Coursework for Minor	6
Coursework for Minor	6	Free Choice Electives	7
COMM Elective*	3	Semester Total	16
Semester Total	15		

Public Relations Major, B.S. Degree - 124 hours

- *Choose 8 hours of COMM electives from the list provided in the 2009 Undergraduate Catalog.
- This plan is based on a 21-hour minor.
- During the last semester of the senior year, all graduates must submit a portfolio to the public relations assessment coordinator before graduating. See department advisor for requirements.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 and Human Services
Department of Safety 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 Department of Safety Sciences' safety management 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.

About the Faculty

The Department of Safety Sciences has 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 departmental 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 sciences 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 Department of Safety Sciences also offers 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 Department of Safety Sciences has 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, write to the Department of Safety Sciences, Humphreys 327, UCM, Warrensburg, MO 64093, or call 1-660-543-4626. The department's web address is www.ucmo.edu/ss and its email address is safety@ucmo.edu.

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

University of Central Missouri • Four-Year Academic Guide

Safety Management Major, B.S. Degree (43-243)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester SAFE 3000 Accident Causation & Prevention MATH 1111 College Algebra ENGL 1020 Composition I General Education SAFE 1000 Exploring Safety Sciences Semester Total	Hrs. 3 3 3 6 1 16	Freshman Year - Spring Semester PSY 1100 General Psychology CHEM 1104 Intro. to the Sciences: Chemistry ENGL 1030 Composition II General Education Semester Total	Hrs. 3 4 3 5-6 15-16
Sophomore Year - Fall Semester SAFE 4020 Legal Aspects of Safety & Health SAFE 3120 Introduction to Industrial Hygiene PHYS 1103 Introduction to the Sciences: Physics General Education Minor Coursework Semester Total	Hrs. 3 3 3 3 3 15	Sophomore Year - Spring Semester SAFE 4510 Loss Control SAFE 4520 Safety & Risk Analysis SAFE 3430 Industrial Hazard Control General Education Minor Coursework Semester Total	Hrs. 3 3 3 3 3 15
Junior Year - Fall Semester SAFE 3070 Safety Leadership SAFE 4000 Ergonomics in Safety & Health SAFE 4425 Safety & Health Legis. & Standards SAFE 4140 Safety & Health Laboratory General Education Semester Total	Hrs. 3 3 3 3 3 15	Junior Year - Spring Semester SAFE 4430 Workers Compensation Legislation SAFE 4850 Industrial Fire Protection Minor Coursework General Education Semester Total	Hrs. 3 3 3 3 12
Summer - Between Junior & Senior Year SAFE 4990 Internship in Safety Sciences* or Departmentally Approved Elective Semester Total	Hrs. 3 3		
Senior Year - Fall Semester SAFE 4010 Accident Investigation SAFE 4035 Safety Program Management SAFE 4940 Statistical Analysis for Risk Mgmt. General Education Minor Coursework Semester Total	Hrs. 3 3 3 3 3 15	Senior Year - Spring Semester SAFE 4435 Environmental Compliance SAFE 4560 Systems Safety ICAP 4115 Safety & Health Management Minor Coursework Semester Total	Hrs. 3 3 3 6 15

Safety Management Major, B.S. Degree - 121 hours

- *SAFE 4990 should be taken during the summer.
- This plan is based on an 18-hour minor.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 and the department's home page is www.ucmo.edu/history.

University of Central Missouri • Four-Year Academic Guide

Social Studies Major, B.S. in Ed. Degree (41-264)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester <i>HIST 1350 History of the U.S. to 1877</i> SOC 1800 General Sociology <i>General Education Science w/lab</i> <i>ENGL 1020 Composition I</i> General Education Semester Total	Hrs. 3 3 4 3 3 16	Freshman Year - Spring Semester HIST 1351 History of the U.S. from 1877 ECON 1010 Principles of Macroeconomics POLS 1510 American Government <i>General Education Math</i> <i>ENGL 1030 Composition II</i> Semester Total	Hrs. 3 3 3 3 3 15
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Sophomore Year - Fall Semester GEOG 2212 World Geography HIST 2401 History of the Early Modern World EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology CTE 2000 Technology and Society* Semester Total	Hrs. 3 3 2 1 3 3 15	Sophomore Year - Spring Semester POLS 2511 State Government HIST 2400 History of the Early World or HIST 2402 History of the Modern World** ECON 1011 Principles of Microeconomics General Education Semester Total	Hrs. 3 3 3 3 6-9 15-18
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Junior Year - Fall Semester SOSOC 3010 Writing in the Social Sciences HIST Upper-Level Electives*** PSY 4200 Psychology of Exceptional Children EDFL 4300 Educational Measurement & Evaluation General Education Semester Total	Hrs. 3 6 2 2 3 16	Junior Year - Spring Semester HIST Upper-Level Electives*** Upper-Level Elective in SOC or ANTH PSY 4230 Psychology of Adolescence EDFL 4210 Teaching of Reading in the Sec. School General Education Semester Total	Hrs. 6 3 3 2 3 17
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Senior Year - Fall Semester SOSOC 4050 The Social Studies Upper-Level Electives in Major# Upper-Level Elective in GEOG EDFL 3500 Sec. Teaching and Behavioral Mgt. FLDX 3550 Practicum in Secondary Instruction Semester Total	Hrs. 3 6 3 3 1 16	Senior Year - Spring Semester SOSOC 4074 Methods of Teaching Social Studies SOSOC 4020 Secondary Field Experience II FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total	Hrs. 2 1 5 4 12
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Social Studies Major, B.S. in Ed. Degree - 122-125 hours

- *Students must take CTE 2000 to fulfill general education Division II, Area A Part II.
- **If selected, HIST 2402 will fulfill 3 hours of General Education Division II Area D. If not selected, and 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 and World History requirements.
- #Students choose upper-level electives from at least two of the following prefixes: GEOG, HIST, POLS, SOC, ANTH, or ECON.
- 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 and prior to taking 4000-level Education courses.
- See 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.



College of Health and Human Services
Department of Sociology 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. 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 Fall 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, 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: Department Achievement Awards and the C. James Britton Scholarship. The Social Work Program participates in the Title IV-E Child Welfare Training Program. This program provides a limited number of stipends to students interested in pursuing a social work career in public child welfare services.

To Learn More

For more information contact the Department of Sociology and Social Work, Wood 203, UCM, Warrensburg, MO 64093, email socdept@ucmo.edu or phone 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.

University of Central Missouri • Four-Year Academic Guide

Social Work Major, B.S.W. Degree (48-847)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
ENGL 1020 Composition I	3	SOC 1800 General Sociology	3
General Education	12	ENGL 1030 Composition II	3
Semester Total	15	General Education	9
AE 1400 Freshman Seminar*	1	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
PSY 1100 General Psychology	3	SOWK 2600 Intro. to Social Welfare & Social Work	3
General Education MATH	3	BIOL 2010 Human Biology	3
General Education**	3	General Education	6
Free Choice Electives	6	Free Choice Electives	4
Semester Total	15	Semester Total	16

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
SOWK 3601 SW Practice & Agency Experience	3	SOWK 3605 Meth. of Inq. & Eval. for Soc. Workers	3
SOWK 3612 Human Behav. in Social Environ. I	3	SOWK 3610 Social Work Practice: Basic Skills	3
SOC 2805 Introduction to Social Research	3	SOWK 4612 Human Behavior in Social Environ. II	3
SOC 3825 Race & Ethnic Relations	3	SOWK 4640 SW Practice: Inter. w/Comm. & Orgs.	3
Free Choice Elective	5	Free Choice Elective	3
Semester Total	17	Semester Total	15

Apply for Admission to Social Work Program

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
PSY 4440 Abnormal Psychology	3	SOWK 4660 Field Practicum	9
SOWK 4610 Special Topics in Social Work or SOWK 4620 Soc. Serv. & Policy w/ Older Adults	3	ICAP 4478 Integ. Social Work Practicum Seminar	3
SOWK 4630 SW Practice: Inter. with Fam. & Grps.	3	Semester Total	12
SOWK 4650 Social Policy & Economic Justice	3		
Free Choice Elective	3		
Semester Total	15		

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 MAPP test 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 and Human Services
Department of Sociology and Social Work

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, the requirements for the sociology major, and a minor in an area of interest. Minors can be used to pursue areas of interest and/or as preparation for advanced or graduate study.

Student Organizations

The Department of Sociology and Social Work sponsors two organizations that 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

Sociology majors have the opportunity to apply for Achievement Awards during the fall and spring semesters. These awards are based upon academic achievement and are awarded to all department majors who are full-time students, meet the eligibility criteria, and apply each semester. 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 Sociology and Social Work, Wood 203, University of Central Missouri, Warrensburg, MO 64093, email socdept@ucmo.edu or phone 660-543-4407.

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.

University of Central Missouri • Four-Year Academic Guide

Sociology Major, B.A. Degree (42-755)

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Freshman Year - Fall Semester SOC 1800 General Sociology ENGL 1020 Composition I Modern Language Requirement* General Education Semester Total AE 1400 Freshman Seminar**	Hrs. 3 3 3 6 15 1	Freshman Year - Spring Semester SOC Elective General Education ENGL 1030 Composition II Modern Language Requirement* Semester Total	Hrs. 3 6 3 3 15
Sophomore Year - Fall Semester SOC 2805 Introduction to Social Research General Education Free Choice Elective or Minor Coursework Modern Language Requirement* Semester Total	Hrs. 3 3 3 3 15	Sophomore Year - Spring Semester SOC Elective Free Choice Elective or Minor Coursework General Education Semester Total	Hrs. 3 3 8-10 15
Junior Year - Fall Semester SOC 3800 History of Social Thought General Education Free Choice Electives or Minor Coursework Semester Total	Hrs. 3 6 6 15	Junior Year - Spring Semester SOC 4860 Contemporary Social Thought SOC Elective Free Choice Electives or Minor Coursework Semester Total	Hrs. 3 3 9 15
Senior Year - Fall Semester SOC 4890 Social Survey Research SOC 4895 Sociology Capstone Seminar Free Choice Electives or Minor Coursework Semester Total	Hrs. 3 3 9 15	Senior Year - Spring Semester General Education Free Choice Electives or Minor Coursework Semester Total	Hrs. 3 12 15

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 MAPP test 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 and Human Services *Department of Sociology and Social Work*

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, the requirements for the sociology major, and a minor in an area of interest. Minors can be used to pursue areas of interest and/or as preparation for advanced or graduate study.

Student Organizations

The Department of Sociology and Social Work sponsors two organizations that 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

Sociology majors have the opportunity to apply for Achievement Awards during the fall and spring semesters. These awards are based upon academic achievement and are awarded to all department majors who are full-time students, meet the eligibility criteria, and apply each semester. 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 Sociology and Social Work, Wood 203, University of Central Missouri, Warrensburg, MO 64093, email socdept@ucmo.edu or phone 660-543-4407.

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.

University of Central Missouri • Four-Year Academic Guide

Sociology Major, B.S. Degree (43-756)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
SOC 1800 General Sociology	3	SOC Elective	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
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
Semester Total	15-16	Semester Total	15

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
SOC 3800 History of Social Thought	3	SOC 4860 Contemporary Social Thought	3
SOC Elective	3	SOC Elective	3
Free Choice Electives or Minor Coursework	6	Free Choice Electives or Minor Coursework	9
General Education	3	Semester Total	15
Semester Total	15		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
SOC 4890 Social Survey Research	3	SOC Elective	3
SOC 4895 Sociology Capstone Course	3	General Education	3
Free Choice Electives or Minor Coursework	9	Free Choice Electives or Minor Coursework	9
Semester Total	15	Semester Total	15

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 MAPP test 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 Modern Languages

Spanish

BACHELOR OF ARTS DEGREE

The Internet and other forms of instant communication have made international contact a part of everyday life. The Department of Modern Languages offers degree programs in French, German and Spanish for students to become fluent in a second language and prepare for a variety of careers.

Graduates from the Department of Modern Languages are in demand for foreign and domestic positions in business and industry, education, the federal government and the military. Most U.S. corporations have international offices and offer a variety of opportunities. The U.S. State Department's Foreign Service, the Central Intelligence Agency, National Security Agency, Peace Corps, Customs and Immigration and many other federal agencies have a need for people trained in a second language. In addition, there is a continuing need for modern language teachers and researchers.

Curriculum

Students majoring in Spanish must complete 42 credit hours (13 courses). For students who major in a language that they began studying in high school, the validated credit program allows them to receive up to six credits without paying tuition for work completed in high school. The classes for the major include

Language courses, two composition courses, three conversation classes, and courses in the history of the countries where Spanish is spoken. Students are also able to choose several upper-division-level electives from courses such as Spanish cinema, business Spanish, and culture and issues in the Spanish-speaking world and literature.

Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class. While not required, all majors and minors are encouraged to include a study abroad component in their programs. Students have studied in a number of exciting cities such as Valencia, Spain; Monterrey, Mexico, and cities in other Spanish-speaking countries.

Student Activities

Students are encouraged to supplement their academic programs through involvement in campus activities. Many conversational and cultural experiences are available to students by participating in activities of the Spanish Club.

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 Modern Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at 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.

University of Central Missouri • Four-Year Academic Guide

Spanish Major, B.A. Degree (42-338)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
SPAN 2601 Intermediate Spanish I	3	SPAN 2602 Intermediate Spanish II	3
General Education	8-9	General Education	6
Semester Total	14-15	Minor Coursework	3
AE 1400 Freshman Seminar*	1	Semester Total	15
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
SPAN 2603 Spanish Conversation I	3	SPAN 3603 Spanish Conversation II	3
SPAN 3623 Spanish Composition	3	SPAN 3662 Spanish American Civ. & Literature	3
General Education	6	General Education	6-7
Minor Coursework	3	Minor Coursework	3
Semester Total	15	Semester Total	15-16
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
SPAN 3661 Spanish Civilization & Literature	3	SPAN 4623 Advanced Spanish Composition	3
SPAN 4603 Advanced Readings & Oral Expression	3	Elective in SPAN 4000-Level	3
Minor Coursework	3	Minor Coursework	6
General Education	6	General Education	3
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
Elective in SPAN 4000-Level	3	Elective in SPAN 4000-Level	3
Minor Coursework	6	Minor Coursework	3
Free Choice Electives	6	General Education (IGEN/ICAP)	3
Semester Total	15	Free Choice Electives	4
		Semester Total	13

Spanish Major, B.A. Degree - 124 hours

(118 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)

- *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.
- Credits for SPAN 1601 (Elementary Spanish I) and SPAN 1602 (Elementary Spanish II):**
If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing SPAN 2601 with a grade of "C" or higher (validated credit program).
- This plan is based on a 27-hour minor. Number of free choice electives needed will depend on the minor chosen.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Modern Languages

Spanish

BACHELOR OF SCIENCE DEGREE

The Internet and other forms of instant communication have made international contact a part of everyday life. The Department of Modern Languages offers degree programs in French, German and Spanish for students to become fluent in a second language and prepare for a variety of careers.

Graduates from the Department of Modern Languages are in demand for foreign and domestic positions in business and industry, education, the federal government and the military. Most U.S. corporations have international offices and offer a variety of opportunities. The U.S. State Department's Foreign Service, the Central Intelligence Agency, National Security Agency, Peace Corps, Customs and Immigration and many other federal agencies have a need for people trained in a second language. In addition, there is a continuing need for modern language teachers and researchers.

Curriculum

Students majoring in Spanish must complete 42 credit hours (13 courses). For students who major in a language that they began studying in high school, the validated credit program allows them to receive up to six credits without paying tuition for work completed in high school. The classes for the major include

language courses, two composition courses, three conversation classes, and courses in the history of the countries where Spanish is spoken. Students are also able to choose several upper-division-level electives from courses such as Spanish cinema, business Spanish, and culture and issues in the Spanish-speaking world, and literature.

Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class. While not required, all majors and minors are encouraged to include a study abroad component in their programs. Students have studied in a number of exciting places such as Valencia, Spain; Monterrey, Mexico, and cities in other Spanish-speaking countries.

Student Activities

Students are encouraged to supplement their academic programs through involvement in campus activities. Many conversational and cultural experiences are available to students by participating in activities of the Spanish Club.

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 Modern Languages, Martin 236, UCM, Warrensburg, MO 64093; call 660-543-4780; or visit the department's web page at 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.

University of Central Missouri • Four-Year Academic Guide

Spanish Major, B.S. Degree (43-339)

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Freshman Year - Fall Semester ENGL 1020 Composition I SPAN 2601 Intermediate Spanish I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 8-9 14-15 1	Freshman Year -Spring Semester ENGL 1030 Composition II SPAN 2602 Intermediate Spanish II Minor Coursework General Education Semester Total	Hrs. 3 3 3 6 15
Sophomore Year - Fall Semester SPAN 2603 Spanish Conversation I SPAN 3623 Spanish Composition Minor Coursework General Education Semester Total	Hrs. 3 3 3 6 15	Sophomore Year - Spring Semester SPAN 3603 Spanish Conversation II SPAN 3662 Spanish American Civ. & Literature General Education Minor Coursework Semester Total	Hrs. 3 3 6-7 3 15-16
Junior Year - Fall Semester SPAN 3661 Spanish Civilization & Literature SPAN 4603 Advanced Readings & Oral Expression Minor Coursework General Education Semester Total	Hrs. 3 3 3 6 15	Junior Year - Spring Semester SPAN 4623 Advanced Spanish Composition Elective in SPAN 4000-Level Minor Coursework General Education Semester Total	Hrs. 3 3 6 3 15
Senior Year - Fall Semester Elective in SPAN 4000-Level Minor Coursework Free Choice Electives Semester Total	Hrs. 3 6 6 15	Senior Year - Spring Semester Elective in SPAN 4000-Level Minor Coursework General Education (IGEN/ICAP) Free Choice Electives Semester Total	Hrs. 3 3 3 4 13

Spanish Major, B.S. Degree - 124 hours (118 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)

- *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.
- **Credits for SPAN 1601 (Elementary Spanish I) and SPAN 1602 (Elementary Spanish II):**
 If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing SPAN 2601 with a grade of "C" or higher (validated credit program).
- This plan is based on a 27-hour minor. Number of free choice electives needed will depend on the minor chosen.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 Modern Languages

Spanish

BACHELOR OF SCIENCE IN EDUCATION DEGREE

University of Central Missouri's Bachelor of Science in Education degree program with a major in Spanish is designed for students who want to teach Spanish in Missouri schools. 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.

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Graduates from the Department of Modern Languages are in demand for foreign and domestic positions in business and industry, education, the federal government and the military. Most U.S. corporations have international offices and offer a variety of opportunities. The U.S. State Department's Foreign Service, the Central Intelligence Agency, National Security Agency, Peace Corps, Customs and Immigration and many other federal agencies have a need for people trained in a second language. In addition, there is a continuing need for modern language teachers and researchers.

Curriculum

Students majoring in Spanish must complete 42 credit hours (13 courses). For students who major in a language they began studying in high school, the validated credit program allows them to receive up to six credits without paying tuition for work completed in high school. The classes for the major include two composition courses, three conversation classes, and courses in the history of the countries where Spanish is spoken. Students are also able to choose several upper-division-level electives from courses such as Spanish cinema, business Spanish, and culture and issues in the Spanish-speaking world.

Study Abroad

Study abroad programs offer immersion experiences that complement what students have learned in class. While not required, all majors and minors are encouraged to include a study abroad component in their programs. Students have studied in a number of exciting cities such as Valencia, Spain; Monterrey, Mexico, and cities in other Spanish-speaking countries.

Student Activities

Students are encouraged to supplement their academic programs through involvement in campus activities. Many conversational and cultural experiences are available to students by participating in activities of the Spanish Club.

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. There are also two endowed scholarships in Spanish.

For More Information

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University of Central Missouri • Four-Year Academic Guide

Spanish Education Major, B.S. in Ed. Degree (41-337)

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Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
POLS 1510 American Government	3	SPAN 2602 Intermediate Spanish II	3
SPAN 2601 Intermediate Spanish I	3	General Education	3
General Education Science w/lab*	4	Minor Coursework	3
General Education	2-3	HIST 1350 or 1351 U.S. History	3
Semester Total	15-16	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
EDFL 2100 Foundations of Education	2	SPAN 3603 Spanish Conversation II	3
FLDX 2150 Introductory Field Experience	1	Elective in Spanish***	3
EDFL 2240 Educational Psychology	3	General Education	6
SPAN 3623 Spanish Composition	3	Minor Coursework	3
SPAN 2603 Spanish Conversation I	3	Semester Total	15
General Education	3		
Minor Coursework	3		
Semester Total	18		

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
SPAN 4603 Adv. Reading & Oral Expression	3	SPAN 4623 Advanced Spanish Composition	3
SPAN 3661 Spanish Civilization & Literature	3	SPAN 3662 Spanish-American Civil. & Literature	3
Minor Coursework	3	EDFL 4210 Teaching of Reading in Secondary	2
General Education	3	EDFL 4300 Educ. Measurement & Evaluation	2
Elective in Spanish***	3	PSY 4200 Psychology of Excep. Children or	
Semester Total	15	EDSP 2100 Education of the Excep. Child	2
		General Education	3
		Minor Coursework	3
		Semester Total	18

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
Elective in Spanish***	3	ML 4020 Field Experience II	1
Minor Coursework	3	ML 4054 Methods of Teaching Foreign Language	2
General Education	3	FLDX 4495 Student Teaching Elementary I	5
EDFL 3500 Sec. Teaching & Behav. Management	3	ICAP 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	Semester Total	12
PSY 4230 Adolescent Psychology	3		
Semester Total	16		

Spanish Major, B.S. Ed. Degree - 130 hours (124 hours taken on campus plus six hours of "validated credit" or "dual credit".)

- *Students pursuing a B.S. in Ed. must complete a biology prefix.
- ***Students chose from the following Spanish elective classes: SPAN 4650, SPAN 4665, SPAN 4671, or SPAN 4680.
- **Credits for SPAN 1601 (Elementary SPAN I) and SPAN 1602 (Elementary SPAN II):**
If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing Spanish 2601 with a grade of "C" or higher (validated credit program).
- This program is based on a 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 and prior to taking 4000-level Education courses.
- See 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.



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.

To contact the Office of Admissions in Ward Edwards 1400, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Special Education: Early Childhood Major, B.S. in Ed. Degree (41-784)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester <i>ENGL 1020 Composition I</i> <i>MATH 1620 Contemporary Mathematics</i> <i>HIST 1350 or 1351 US History</i> <i>General Education Science with lab*</i> General Education Semester Total	Hrs. 3 3 3 4 2-3 14-15	Freshman Year - Spring Semester EDSP 2100 Education of the Exceptional Child GEOG 2212 World Geography <i>ENGL 1030 Composition II</i> ECEL 1310 Physics for Teachers or ECEL 1320 Biology for Teachers* General Education Semester Total	Hrs. 2 3 3 3 6 17
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Sophomore Year - Fall Semester EDFL 2240 Educational Psychology EDFL 2100 Foundation of Education FLDX 2150 Introductory Field Experience EDSP 4320 Intro. to Early Childhood Special Ed. CFD 1220 Child Development CFD 1230 Observation of Children ECEL 2310 Computer/Technology in Education Semester Total	Hrs. 3 2 1 3 3 2 2 16	Sophomore Year - Spring Semester <i>POLS 1510 American Government</i> D&N 2310 Early Childhood Nutrition & Health EDSP 3150 Community & Family Resources EDSP 3151 Comm & Family Resources Practicum EDSP 4140 Collaborating with Families General Education Semester Total	Hrs. 3 2 2 1 3 6 17
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Junior Year - Fall Semester CD 2000 Bases of Speech & Language EDSP 4370 Screening, Diag., & Presc. Inst. EDSP 4620 Evaluation of Ability & Achievement MATH 3890 Conc. & Meth. for Teach. Sp. Ed. HED 4330 First Aid & CPR General Education Semester Total	Hrs. 2 3 3 3 1 3 15	Junior Year - Spring Semester EDSP 4350 Augmentative & Alternative Comm. EDSP 4470 Perceptual Motor Training EDSP 4440 Curriculum & Methods ECSE EDSP 4360 Behavior Management Techniques EDSP 4361 Practicum in Behavior Mgt. Techniques EDFL 3210 Methods of Reading Instruction Free Choice Electives Semester Total	Hrs. 3 2 3 2 1 3 2-3 16-17
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Senior Year - Fall Semester IGEN 3468 Community School & Family Conn. ECEL 3220 The Teaching of Language Arts EDFL 3410 Children's Literature EDSP 4700 IEP & Law ART 3910 Art for Elementary School General Education Semester Total	Hrs. 3 3 2 3 2 3 16	Senior Year - Spring Semester EDSP 4395 Student Teaching I EDSP 4396 Student Teaching II Semester Total	Hrs. 6 6 12
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Special Education: Early Childhood Major, B.S. in Ed. Degree – 121 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.
- 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 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.



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

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University of Central Missouri • Four-Year Academic Guide

Special Education: Mild/Moderate Cross Categorical Disabilities, B.S. in Ed. Degree (41-784)

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<p>Freshman Year - Fall Semester <i>ENGL 1020 Composition I</i> <i>MATH 1620 Contemporary Mathematics</i> <i>POLS 1510 American Government</i> <i>General Education Science with lab*</i> General Education Semester Total AE 1400 Freshman Seminar**</p>	<p>Hrs. 3 3 3 4 2-3 15-16 1</p>	<p>Freshman Year - Spring Semester HIST 1350 or 1351 US History EDSP 2100 Education of the Exceptional Child <i>ENGL 1030 Composition II</i> ECEL 1310 Physics for Teachers or ECEL 1320 Biology for Teachers* General Education Semester Total</p>	<p>Hrs. 3 2 3 3 3 14</p>
<p>Sophomore Year - Fall Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 4385 Intro. to Cross Categorical Special Ed. PSY 2220 Child Psychology*** ECEL 2310 Computer Technology in Education General Education Semester Total</p>	<p>Hrs. 2 1 3 3 3 2 3 17</p>	<p>Sophomore Year - Spring Semester EDFL 3210 Methods of Reading Instruction PSY 4230 Adolescent Psychology*** GEOG 2212 World Geography HED 3310 Methods in Elementary School Health EDSP 4140 Collaborating with Families General Education Semester Total</p>	<p>Hrs. 3 3 3 2 3 3 17</p>
<p>Junior Year - Fall Semester MATH 3890 Concepts & Meth for Teach. Sp. Ed. ART 3910 Art for Elementary School EDSP 4620 Evaluation of Ability & Achievement EDSP 4150 Career Dev. for Student w/Disabilities EDFL 3215 Teaching Reading Content Free Choice Electives Semester Total</p>	<p>Hrs. 3 2 3 2 3 2-3 15-16</p>	<p>Junior Year - Spring Semester EDFL 4220 Analysis/Correction Reading Disabilities EDFL 4250 Practicum in Reading MATH 4890 Math for Special Education CD 4402 Language Acq. for Children w/Dev. Dis. EDSP 4360 Behavior Management Techniques EDSP 4361 Practice in Behavior Management Tech. General Education Semester Total</p>	<p>Hrs. 2 1 2 2 2 1 6 16</p>
<p>Senior Year - Fall Semester EDSP 4700 IEP & the Law EDSP 4421 Methods of Cross-Cat I: MR/OHI EDSP 4422 Methods of Cross-Cat II: LD EDSP 4423 Methods of Cross-Cat III E/BD HED 4330 First Aid & CPR for Educators Semester Total</p>	<p>Hrs. 3 3 3 3 1 13</p>	<p>Senior Year - Spring Semester EDSP 4395 Student Teaching in Special Ed. I ICAP 4468 Student Teaching Second II Semester Total</p>	<p>Hrs. 8 4 12</p>

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.
- 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 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.



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.

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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

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Faculty

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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

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To contact the Office of Admissions in Ward Edwards 1400, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Special Education: Severely Developmentally Disabled Major, B.S. in Ed. Degree (41-784)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p><i>ENGL 1020 Composition I</i> <i>MATH 1620 Contemporary Mathematics</i> <i>POLS 1510 American Government</i> <i>General Education Science with Lab*</i> General Education Semester Total AE 1400 Freshman Seminar**</p>	<p>Hrs. 3 3 3 4 2-3 15-16 1</p>	<p>Freshman Year - Spring Semester</p> <p>GEOG 2212 World Geography <i>ENGL 1030 Composition II</i> General Education ECEL 1310 Physics for Teachers or ECEL 1320 Biology for Teachers* EDSP 2100 Education of the Exceptional Child Semester Total</p>	<p>Hrs. 3 3 6 3 3 2 17</p>
<p>Sophomore Year - Fall Semester</p> <p>EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 4370 Screening, Diagn., & Presc. Inst. NUR 4060 Phy. & Health Medically Fragile Child ECEL 2310 Computer/Tech. in Education CD 4402 Language Acq. for Children w/Dev. Dis. Semester Total</p>	<p>Hrs. 2 1 3 3 3 2 2 16</p>	<p>Sophomore Year - Spring Semester</p> <p>EDSP 4140 Collaborating with Families PE 4340 Adaptive Physical Education PSY 4230 Psychology of Adolescence*** <i>HIST 1350 or 1351 American History</i> EDSP 4350 Augmentative & Alternative Comm. Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>
<p>Junior Year - Fall Semester</p> <p>EDSP 4310 Introduction to Students with SDD# EDSP 4330 Ed. & Training of Students w/SDD# PSY 2220 Child Psychology*** MATH 3890 Conc. & Meth. for Teach. Special Ed. General Education Semester Total</p>	<p>Hrs. 2 3 3 3 6 17</p>	<p>Junior Year - Spring Semester</p> <p>EDSP 4470 Perceptual Motor Training EDSP 4450 Curriculum & Methods for Tchg. SDD# EDSP 4360 Behavior Management Techniques EDSP 4361 Practice in Behavior Mgt. Techniques EDSP 4620 Evaluation of Ability & Achievement MATH 4890 Math for Special Education Semester Total</p>	<p>Hrs. 3 3 2 1 3 2 14</p>
<p>Senior Year - Fall Semester</p> <p>EDFL 3210 Methods of Reading Instruction HED 3310 Methods in Elementary School Health EDSP 4700 IEP & Law ART 3910 Art for Elementary School HED 4330 First Aid and CPR for Educators General Education Free Choice Electives Semester Total</p>	<p>Hrs. 3 2 3 2 1 3 0-1 14-15</p>	<p>Senior Year - Spring Semester</p> <p>EDSP 4395 Student Teaching I ICAP 4468 Student Teaching II Semester Total</p>	<p>Hrs. 8 4 12</p>

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.
- 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 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.



**College of Arts, Humanities, and
Social Sciences**
Department of Communication

Speech Communication

BACHELOR OF ARTS DEGREE

A hallmark of the speech communication program at the University of Central Missouri is to empower students to analyze and critique verbal and nonverbal messages. In addition, students are also taught to clearly communicate ideas in oral and written formats.

The Bachelor of Arts in Speech Communication degree prepares students for entry level managerial positions in business and government agencies. In addition, the program includes students who continue their education in areas of law, higher education, journalism, and ministry.

A unique aspect of the 40-hour program is that it allows students to take three to nine hours in related disciplines (e.g., political science, philosophy) to enhance their area of specialization. This provides students an opportunity to influence their own education by selecting courses of interest.

This undergraduate degree emphasizes the general study of human communication in an increasingly globalized world. The areas of study include rhetoric, social influence or communication, interaction skills, and applied communication.

In addition, the program gives an international/intergroup perspective to understand relational issues in the communication process.

Faculty

There are 20 full-time faculty members in the Department of Communication with scholarly and/or work experience in their areas of specialization. Graduate assistants complement the departmental majors either teaching or working in laboratories.

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. 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.

Additionally, internship programs are supervised by faculty members and provide students with a variety of professional experiences.

Finally, in accordance with a focus intergroup and intercultural communication, the Department of Communication promotes undergraduate and graduate

learning experiences at the Glamorgan University in Pontyprodd, Wales; Buckingham Chilterns 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 Maastricht Center for Transatlantic Studies in Maastricht, The Netherlands.

Prospective Employment

Increasingly, employers are hiring graduates who are familiar with the issues of diversity, and can understand the ways that age, race, gender, ethnicity, sexual orientation, and ability impact communication both professionally and personally. A student with a speech communication degree has the experience and educational background to address and respond to a dynamic and diverse society.

To Learn More

For more information, contact the Department of Communication, Martin 136, Warrensburg, MO 64093; call 660-543-4840; or visit the department's home page at www.ucmo.edu/commun.

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

University of Central Missouri • Four-Year Academic Guide

Speech Communication Major, B.A. Degree (42-358)

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Freshman Year - Fall Semester COMM 1000 Public Speaking COMM 2325 Improving Listening Abilities* ENGL 1020 Composition I Modern Language Requirement** General Education Semester Total AE 1400 Freshman Seminar***	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester COMM 2100 Introduction to Communication Theory COMM 2330 Small Group Communication ENGL 1030 Composition II Modern Language Requirement** General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester COMM 3010 Interpersonal Communication Modern Language Requirement** General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester COMM 2320 Foundations of Rhetorical Theory* ANTH 1820 or GEOG 3201 or WS 2000 General Education Minor Coursework Semester Total	Hrs 3 3 7 3 16
Junior Year - Fall Semester COMM 3730 Communication Conflict Management* General Education Minor Coursework Free Choice Electives Semester Total	Hrs 3 5 3 6 17	Junior Year - Spring Semester COMM 3340 Intercultural Communication* COMM 4345 Modern Rhetorical Theory* (or COMM 3320 fall only) Minor Coursework Free Choice Electives Semester Total	Hrs 3 0-3 6 4 13-16
Senior Year - Fall Semester COMM 3320 Audience Adaptation* (or COMM 4345 spring only) COMM 4335 Gender Communication* COMM 4340 Classical Rhetorical Theory* Minor Coursework Free Choice Electives Semester Total	Hrs 0-3 3 3 6 3 15-18	Senior Year - Spring Semester COMM 4330 Theories of Interpersonal Comm.* Minor Coursework IGEN 3224 or 3232 or 4224 Free Choice Electives Semester Total	Hrs 3 3 3 6 15

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

- *Course is offered only during the semester indicated.
- **Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language requirement. 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 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.
- In their final semester, speech communication majors are required to participate in an exit interview as a summative assessment. See department adviser for further information.
- 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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

Speech Communication

BACHELOR OF SCIENCE DEGREE

A hallmark of the speech communication program at the University of Central Missouri is to empower students to analyze and critique verbal and nonverbal messages. In addition, students are also taught to clearly communicate ideas in oral and written formats.

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To Learn More

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

University of Central Missouri • Four-Year Academic Guide

Speech Communication Major, B.S. Degree (43-359)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
COMM 1000 Public Speaking	3	COMM 2330 Small Group Communication	3
COMM 1100 Introduction to Communication	1	COMM 3010 Interpersonal Communication	3
COMM 2325 Improving Listening Abilities*	3	ANTH 1820 or GEOG 3201 or WS 2000	3
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
General Education	5-6	General Education	3
Semester Total	15-16	Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 2100 Introduction to Communication Theory	3	COMM 2320 Foundations of Rhetorical Theory*	3
Major Elective in Social Influence	3	COMM 3100 Communication Research Methods	3
General Education	9	General Education	7
Semester Total	15	Minor Coursework	3
		Semester Total	16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 3350 Principles of Presentational Speaking*	3	COMM 3000 Film Appreciation	3
Major Elective in Applied Communication	2-3	Major Elective in Social Influence	2-3
General Education	3	Minor Coursework	6
Minor Coursework	3	Free Choice Electives	5
Free Choice Electives	5	Semester Total	16-17
Semester Total	16-17		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
Major Elective in Social Influence	2-3	COMM 4320 Persuasion*	2
Major Elective in Rhetorical Studies	3	Major Elective in Rhetorical Studies	2-3
IGEN 3224 or 3232 or 4224	3	Major Elective in Interaction Skills	2-3
Minor Coursework	6	Minor Coursework	3
Semester Total	14-15	Upper-Level Free Choice Electives**	3
		Free Choice Electives	1-3
		Semester Total	13-17

Speech Communication Major, B.S. Degree - 124 hours

- *Course is offered only during 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.
- In their final semester, speech communication majors are required to participate in an exit interview as a summative assessment. See department adviser for further information.
- 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.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

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 varied 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 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. Auditions and interviews are held during the spring semester for paid, unpaid and university-credit positions.

Scholarships

The Department of Theatre offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre 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, 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, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at www.ucmo.edu/theatre/.

For admission information, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Speech Communication and Theatre Major - Speech Option, B.S. in Ed. Degree (41-362)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester <i>ENGL 1020 Composition I</i> General Education COMM 1000 Public Speaking <i>POLS 1510 American Government</i> General Education Semester Total	Hrs 3 3 3 3 3 15	Freshman Year - Spring Semester <i>ENGL 1030 Composition II</i> THEA 1500 Acting THEA 2400 Theatre in Western Civilization HIST 1350 or 1351 US History WS 2000 or GEOG 3201 or ANTH 1820 Semester Total	Hrs 3 3 3 3 3 15
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Sophomore Year - Fall Semester COMM 2100 Intro. to Communication Theory COMM 2330 Small Group Communication COMM 3010 Interpersonal Communication THEA 1600 Stagecraft General Education Science w/lab Semester Total	Hrs 3 3 3 3 4 16	Sophomore Year - Spring Semester COMM 2340 Argumentation & Debate COMM 3390 Forensics EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology THEA 3700 Directing Minor Coursework Semester Total	Hrs 3 1 2 1 3 3 3 16
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Junior Year - Fall Semester PSY 4200 Psychology of Exceptional Child or EDSP 2100 Education of Exceptional Child COMM 3325 Nonverbal Communication* COMM 3350 Principles of Presentational Speaking* Minor Coursework General Education Semester Total	Hrs 2 2 3 3 6 3 16	Junior Year - Spring Semester EDFL 4210 Teaching Reading in Secondary PSY 4230 Psychology of Adolescence COMM 3000 Film Appreciation Minor Coursework General Education Semester Total	Hrs 2 3 3 6 2-3 16-17
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Senior Year - Fall Semester EDFL 3500 Secondary Teaching & Behavior Mgt. FLDX 3550 Practicum in Secondary Instruction EDFL 4300 Educational Measurement & Evaluation THEA 4400 or 4420 Lit. & Hist. of Theatre I or II COMM 3320 Audience Adaptation* COMM or THEA Elective Minor Coursework Semester Total	Hrs 3 1 2 3 3 3 18	Senior Year - Spring Semester THEA 4984 Special Methods Speech & Theatre THEA 4920 Secondary Field Experience II FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total	Hrs 2 1 4 5 12
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Speech Communication and Theatre Major - Speech Option, B.S. in Ed. Degree - 124 hours

- *Course is only offered during the semester indicated.
- 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 and prior to taking 4000-level Education courses.
- See 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.



**College of Arts, Humanities, and
Social Sciences**
Department of Communication

Speech Communication and Theatre

BACHELOR OF SCIENCE IN EDUCATION 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.

This Bachelor of Science in Education degree program is designed for communication 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.

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 the Department of Communication 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.

Finally, in accordance with a focus on intergroup and intercultural communication, the Department of Communication promotes undergraduate and graduate learning experiences at Glamorgan University in Pontypridd, Wales; Buckingham Chilterns 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 Maastricht Center for Transatlantic Studies in Maastricht, The Netherlands.

To Learn More

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

For admission information, call toll free 877-SAY-UCMO (877-729-8266). Central Missouri's web site is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Speech Communication and Theatre Major - Theatre Option, B.S. in Ed. Degree (41-362)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester</p> <p>THEA 1500 Acting THEA 1100 Oral Interpretation THEA 1600 Stagecraft General Education MATH ENGL 1020 Composition I Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>	<p>Freshman Year - Spring Semester</p> <p>General Education Science w/lab* HIST 1350 or 1351 U.S. History THEA 2400 Theatre in Western Civilization ENGL 1030 Composition II THEA 2610 Design Fundamentals Semester Total</p>	<p>Hrs.</p> <p>4 3 3 3 3 16</p>
<p>Sophomore Year - Fall Semester</p> <p>EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology COMM 2330 Small Group Communication COMM 2340 Argumentation & Debate Minor Coursework POLS 1510 American Government Semester Total</p>	<p>Hrs.</p> <p>2 1 3 3 3 3 3 18</p>	<p>Sophomore Year - Spring Semester</p> <p>EDSP 2100 Ed. of the Exceptional Child or PSY 4200 Psychology of the Exceptional Child COMM 2100 Introduction to Comm. Theory THEA 3700 Directing General Education Minor Coursework Semester Total</p>	<p>Hrs.</p> <p>2 3 3 3 5-6 3 16-17</p>
<p>Junior Year - Fall Semester</p> <p>COMM 3390 Forensics COMM 3325 Nonverbal Communication THEA 4400 Literature & History of the Theatre I COMM or Theatre Electives General Education Minor Coursework Semester Total</p>	<p>Hrs.</p> <p>1 2 3 4 3 3 3 16</p>	<p>Junior Year - Spring Semester</p> <p>THEA 3630 Studio Theatre I THEA 4420 Literature & History of the Theatre II PSY 4230 Psychology of Adolescence General Education Minor Coursework Semester Total</p>	<p>Hrs.</p> <p>1 3 3 6 3 16</p>
<p>Senior Year - Fall Semester</p> <p>THEA 4730 Studio Theatre II EDFL 3500 Secondary Teaching & Behavior Mgt. FLDX 3550 Practicum in Secondary Instruction EDFL 4210 Tchg. of Rdg. in the Secondary School EDFL 4300 Education Measures & Evaluation Minor Coursework General Education Semester Total</p>	<p>Hrs.</p> <p>1 3 1 2 2 6 3 18</p>	<p>Senior Year - Spring Semester</p> <p>THEA 4920 Secondary Field Experience II THEA 4984 Methods of Teaching Speech & Theatre FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs.</p> <p>1 2 5 4 12</p>

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 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 and prior to taking 4000-level Education courses.
- See 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.



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College of Health and Human Services
Department of Communication Disorders

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 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 ridged 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 (AAC) 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, Martin 34 UCM, Warrensburg, MO 64093; call 660-543-4993; email comdisorders@UCM.edu; fax 660-543-8234; or visit the department's web site at www.ucmo.edu/comdisorders. For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Speech-Language Pathology Major, B.S. Degree (43-273)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

<p>Freshman Year - Fall Semester CD 1000 Introduction to Communication Disorders 3 CD 1800 Observation of Clinical Practicum 1 BIOL 1003 or 1004 Intro. to the Sciences: Ecology 3-4 ENGL 1020 Composition I 3 General Education 3 Semester Total 13-14 AE 1400 Freshman Seminar (CD Section)* 1</p>	<p>Hrs.</p>	<p>Freshman Year - Spring Semester CD 2301 American Phonetics 3 General Education 9 ENGL 1030 Composition II 3 Semester Total 15</p>	<p>Hrs.</p>
<p>Sophomore Year - Fall Semester CD 3301 Anat. & Phys. of Speech & Swallowing 2 General Education 8-9 PSY 1100 General Psychology 3 COMM 1000 Public Speaking 3 Semester Total 16-17</p>	<p>Hrs.</p>	<p>Sophomore Year - Spring Semester CD 3304 Speech Science 3 General Education 9 Free Choice Electives 3 Semester Total 15</p>	<p>Hrs.</p>
<p>Junior Year - Fall Semester CD 4701 Introduction to Audiology 3 CD 4504 Intro. to Articulation/Phonological Disord. 3 CD 4501 Basic Neurosci. for Speech-Lang. Path. 2 CD 4401 Language Development 3 CD 4900 Special Topics in CD: Beginning Sign Language 2 PSY 3220 Lifespan Development 3 Semester Total 16</p>	<p>Hrs.</p>	<p>Junior Year - Spring Semester CD 3503 Principles of Clinical Management 3 CD 4706 Hearing Measurement 3 CD 4505 School-age Issues in Language & Literacy 3 HED 4330 First Aid & CPR for Educators 1 Free Choice Elective 6 Semester Total 16</p>	<p>Hrs.</p>
<p>Senior Year - Fall Semester PSY 4520 Statistics for the Behavioral Sciences 3 CD 4510 Multicultural Issues in Comm. Disorders 2 CD 4103 Intr. To Evid. Based Pract. in Comm. Dis. CD 2 4708 Aural Rehabilitation 3 CD 4803 Undergraduate Clinical Practicum 1 CD 4102 Couns. Pers. w/Comm. Dis. & Their Fam. 2 Semester Total 13</p>	<p>Hrs.</p>	<p>Senior Year - Spring Semester CD 4512 Best Prac. in Early Child. Intervention 3 CD 4803 Undergraduate Clinical Practicum 1 EDSP 4700 IEP and the Law 3 General Education (IGEN/ICAP) 3 Free Choice Electives 5 Semester Total 15</p>	<p>Hrs.</p>

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.
- Students must contact the undergraduate advisor in the Department of Communication Disorders for admission into the program.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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 through the year 2010.

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.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Studio Art Major (Ceramics Area), B.F.A. Degree (47-263)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 2511 Painting I	3
ART 3209 Figure Construction	3	ART 2710 Printmaking I	3
ART 2420 Sculpture I	3	ART 3412 Ceramics II	3
General Education	3	ART 1825 Art History Survey II (spring)	3
ART 3412 Ceramics II	3	General Education	6
Semester Total	15	Semester Total	18

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
ART 3110 Drawing III	3	ART 4412 Ceramics III	3
ART 3412 Ceramics II	3	General Education	3
ART 2335 Design III	3	ART Electives*	6
ART Elective*	3	ART 4850 20th Century Art & Arch. (fall) or ART 4860 Contemp. Art & Design (spring)	3
General Education	6		
Semester Total	18	Semester Total	15

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
ART 4412 Ceramics III	3	ART 4412 Ceramics III	3
General Education	6	ART 4020 Studio Seminar	3
ART Electives*	6	ICAP 4221 Artists in Contemporary Society	3
Semester Total	15	General Education	6
		Semester Total	15

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 MAPP test 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

To learn more write to the Department of Art and Design, Art Center 120, UCM, Warrensburg, MO 64093; call 660-543-4481; or visit the department's web site at 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.

University of Central Missouri • Four-Year Academic Guide

Studio Art Major (Illustration Area), B.F.A. Degree (47-263)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 2335 Design III	3	ART 2511 Painting I	3
ART 2610 Intro. to Graphic Design & Illustration	3	ART 2710 Introduction to Printmaking	3
ART 1815 Art History Survey I (fall) or ART 1835 Sur. of Non-West. Art Hist. (spring)	3	ART 3209 Figure Construction	3
ART 3610 Typography	3	ART 1825 Art History Survey II	3
General Education	3	General Education	6
Semester Total	15	Semester Total	18

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
ART 2420 Sculpture I	3	ART Elective*	3
ART 3110 Drawing III	3	ART 3635 Illustration Concepts	3
ART 3625 Illustration Techniques	3	ART 2412 Ceramics	3
ART 4850 20th Century Art & Arch. (fall) or ART 4860 Contemp. Art & Design (spring)	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
ART 4625 Advanced Illustration I	3	ART 4635 Advanced Illustration II	3
Art Elective*	6	ART 4020 Studio Seminar	3
General Education	6	ART Elective*	3
Semester Total	18	ICAP 4221 Artists in Contemporary Society	3
		General Education	6
		Semester Total	18

Studio Art Major (Illustration 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 MAPP test 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

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 through the year 2010.

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.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Studio Art Major (Painting Area), B.F.A. Degree (47-263)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ART 1110 Drawing I ART 1315 Design I ART 1800 Ideas & the Visual Arts ENGL 1020 Composition I General Education Semester Total	Hrs. 3 3 3 3 3 15	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Design II ART 2511 Painting I ENGL 1030 Composition II General Education Semester Total	Hrs. 3 3 3 3 3 15
Sophomore Year - Fall Semester ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring) ART 3209 Figure Construction ART 2335 Design III General Education ART 3511 Painting II Semester Total	Hrs. 3 3 3 3 3 15	Sophomore Year - Spring Semester ART 2710 Printmaking I ART 2412 Ceramics I ART 1825 Art History Survey II (spring) General Education ART 3511, 3513, or 3515 (Painting II, Painting II Plein Air (fall), or Painting II Figure (spring)) Semester Total	Hrs. 3 3 3 6 3 18
Junior Year - Fall Semester ART 3511, 3513, or 3515 (Painting II, Painting II Plein Air (fall), or Painting II Figure (spring)) ART 3110 Drawing III ART 2420 Sculpture I ART Elective* General Education Semester Total	Hrs. 3 3 3 3 6 18	Junior Year - Spring Semester ART 3510 Watercolor ART 4511 Painting III General Education ART Elective* ART 4850 20th Century Art & Arch. (fall) or ART 4860 Contemp. Art & Design (spring) Semester Total	Hrs. 3 3 3 3 3 15
Senior Year - Fall Semester ART 4511, 4513, or 4515 (Painting III, Painting III Plein Air (fall), or Painting III Figure (spring)) General Education ART Electives* Semester Total	Hrs. 3 6 6 15	Senior Year - Spring Semester ART 4511, 4513, or 4515 (Painting III, Painting III Plein Air (fall), or Painting III Figure (spring)) ART Elective* ICAP 4221 Artists in Contemporary Society General Education Semester Total	Hrs. 3 3 3 6 15

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 MAPP test 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.

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 through the year 2010.

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.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Studio Art Major (Printmaking Area), B.F.A. Degree (47-263)

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Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 3710 Printmaking II	3
ART 3209 Figure Construction	3	ART 2412 Ceramics	3
ART 2335 Design III	3	ART 2511 Painting I	3
General Education	3	ART 1825 Art History Survey II (spring)	3
ART 3710 Printmaking II	3	General Education	6
Semester Total	15	Semester Total	18

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
ART 3110 Drawing III	3	ART 3720 Printmaking III	3
ART 3710 Printmaking II	3	General Education	3
ART 2420 Sculpture I	3	ART Elective*	6
ART Elective*	3	ART 4850 20th Century Art & Arch. (fall) or ART 4860 Contemp. Art & Design (spring)	3
General Education	6	Semester Total	15
Semester Total	18		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
ART 3720 Printmaking III	3	ART 3720 Printmaking III	3
General Education	6	ART 4020 Studio Seminar	3
ART Elective*	6	ICAP 4221 Artists in Contemporary Society	3
Semester Total	15	General Education	6
		Semester Total	15

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 MAPP test 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 through the year 2010.

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.

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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.

For admission information, call 877-SAY-UCMO (877-729-8266). UCM's home page address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Studio Art Major (Sculpture Area), B.F.A. Degree (47-263)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year - Spring Semester	Hrs.
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
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
ART 1815 Art History Survey I (fall) or ART 1835 Survey of Non-West Art (spring)	3	ART 2710 Introduction to Printmaking	3
ART 3209 Figure Construction	3	ART 2412 Ceramics I	3
ART 2335 Design III	3	ART 2511 Painting I	3
General Education	3	ART 1825 Art History Survey II (spring)	3
ART 3420 Sculpture II	3	General Education	3
Semester Total	15	ART 3420 Sculpture II	3
		Semester Total	18

Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
ART 3110 Drawing III	3	ART 4420 Sculpture III	3
ART 3420 Sculpture II	3	General Education	3
ART 2710 Printmaking I	3	ART Elective*	6
ART Elective*	3	ART 4850 20th Century Art & Arch. (fall) or ART 4860 Contemp. Art & Design (spring)	3
General Education	6	Semester Total	15
Semester Total	18		

Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
ART 4420 Sculpture III	3	ART 4020 Studio Seminar	3
General Education	6	ART 4420 Sculpture III	3
ART Elective*	6	ICAP 4221 Artists in Contemporary Society	3
Semester Total	15	General Education	6
		Semester Total	15

Studio Art Major (Sculpture 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 MAPP test 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 Science and Technology
School of Technology

Technology 2+2

BACHELOR OF SCIENCE DEGREE

The Technology 2+2 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 and General Technology.

Student Involvement

Student Organization of Construction Managers (SOCM), and the Society of Manufacturing Engineers (SME) relate to this degree program. In addition, the National Association of Industrial Technology (NAIT) student group now exists within the School of Technology.

Professional Accreditation

University of Central Missouri's baccalaureate programs in automotive, construction, and electronics are accredited by the National Association for Industrial Technology (NAIT).

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 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.

University of Central Missouri • Four-Year Academic Guide

No 4-Year Plan Provided



College of 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 National Association of Industrial Technology (NAIT) student group now exists within the School of Technology.

Professional Accreditation

University of Central Missouri's baccalaureate programs in automotive, construction, and electronics are accredited by the National Association for Industrial Technology (NAIT).

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 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.

University of Central Missouri • Four-Year Academic Guide

Technology, B.S. Degree (43-289)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ET 1050 Digital Principles & Applications* PR&T 1010 Power Mechanics ET 1010 App. Elect. or ET 1020 Gen. Electronics* ENGL 1020 Composition I General Education Semester Total	Hrs. 4 3 3-4 3 3 16-17	Freshman Year - Spring Semester GRAP 1105 Basic AutoCAD GRAP 1110 Fundamentals of Drafting ENGL 1030 Composition II ECON 1010 Principles of Macroeconomics General Education Semester Total	Hrs. 1 2 3 3 6 15
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Sophomore Year - Fall Semester ACCT 2100 Survey of Accounting ENGT 2530 Machine Tool Technology General Education Semester Total	Hrs. 3 3 9 15	Sophomore Year - Spring Semester ENGT 2040 Engineering Materials Science GRAP 2170 Intro. to Computer-Aided Drafting General Education PHYS 1104 Introduction to the Sciences: Physics Semester Total	Hrs. 4 2 5-6 4 15-16
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Junior Year - Fall Semester SAFE 3000 Prin. of Accident Causation & Preven. Upper Level Major Elective** Free Choice Electives GEOG 3201 The Cultural Landscape Semester Total	Hrs. 3 3 6 3 15	Junior Year - Spring Semester ENGT 3562 Computer Numerical Control (CNC)* Upper Level Major Elective** Free Choice Electives COMM 3010 Interpersonal Communication Semester Total	Hrs. 3 3 7 3 16
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Senior Year - Fall Semester INDM 4210 Industrial Management PR&T 4032 Hydraulics & Pneumatics Upper Level Major Elective** Free Choice Electives Semester Total	Hrs. 3 3 4 6 16	Senior Year - Spring Semester ICAP 4110 Industrial Problem Solving or IGEN 3116 Creative Problem Solving Free Choice Electives General Education Semester Total	Hrs. 3 10 3 16
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Technology, B.S. Degree - 124 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 10 hours of upper level credit in the major electives from the following prefixes: ET, GRAP, CMGT, ENGT, MGMT, INDT, INDM, PR&T or SOT.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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.



UNIVERSITY OF
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College of Education

Department of Career and Technology Education

Technology Education

BACHELOR OF SCIENCE IN EDUCATION DEGREE

The University of Central Missouri Department of Career and Technology Education's program in technology 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.

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, call the Department of Career and Technology Education at 660-543-4452 or visit www.ucmo.edu/cte.

For admission information, call toll free 877-SAY-UCMO (877-729-8266) or visit UCM's home page at www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Technology Education Major, B.S. in Ed. Degree (41-229)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester GRAP 1105 Basic AutoCAD CTE 1300 Introduction to Engineering Design CTE 1000 Introduction to Career & Tech. Educ. ENGL 1020 Composition I MATH General Education* Semester Total	Hrs. 1 3 3 3 3 13	Freshman Year - Spring Semester HIST 1350 or 1351 U.S. History PHYS 1104 Intro. to the Sci.: Physics (Lab) CTE 1500 Gateway to Technology GRAP 2170 Intro. to Computer-Aided Drafting ENGL 1030 Composition II Semester Total	Hrs. 3 4 3 2 3 15
Sophomore Year - Fall Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology ENGT 1000 Principles of Engineering General Education ET 1020 General Electronics Semester Total	Hrs. 2 1 3 3 6 3 18	Sophomore Year - Spring Semester CTE 2000 Technology & Society ENGT 1510 Intro. to Manufacturing Processes ET 1050 Digital Principles and Applications POLS 1510 American Government General Education Semester Total	Hrs. 3 3 4 3 3 16
Junior Year - Fall Semester BIOL 1003 Ecology or 1005 Envir. Science** EDSP 2100 Educ. of the Exceptional Child or PSY 4200 Psychology of Exceptional Children ENGT 2515 Applied Manufacturing Processes GEOG 3201 The Cultural Landscape General Education Semester Total	Hrs. 3 2 3 3 6 17	Junior Year - Spring Semester CTE 4145 Curriculum Construction in CTE EDFL 4210 Teach. of Reading in Secondary Schools IGEN 3116 Creative Problem Solving PSY 4230 Psychology of Adolescence GRAP 4570 Computer Graphics Free Choice Elective*** Semester Total	Hrs. 3 2 3 3 3 3 17
Senior Year - Fall Semester CTE 4125 Methods of Teaching Problem Based Lrn. EDFL 4300 Education Measurement & Evaluation FLDX 3550 Practicum in Secondary Instruction EDFL 3500 Sec. Teaching & Behavioral Mgmt. Free Choice Elective*** Semester Total	Hrs. 3 2 1 3 3 12	Senior Year - Spring Semester FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II T&OE 4120 Secondary Field Experience CTE 4135 Professional Preparation in CTE Semester Total	Hrs. 5 4 1 2 12

Technology Education Major, B.S. in Ed. Degree - 120 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 free choice electives options to enhance your degree program are: CMGT 3010, CTE 3060 or 4115, GRAP 1010, 3160, 4180, MGMT 4520, or PR&T 1010.
- 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 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.



College of Arts, Humanities, and Social Sciences

Department of Theatre

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. 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 of Theatre 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.

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. Auditions and interviews are held during the spring semester for paid, unpaid and university-credit positions.

Scholarships

The Department of Theatre offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre 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, 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, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at www.ucmo.edu/theatre/.

For admission information, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Theatre Major, B.A. Degree (42-364)

This guide is valid for the 2009 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) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs.	Freshman Year -Spring Semester	Hrs.
ENGL 1020 Composition I	3	ENGL 1030 Composition II	3
THEA 1500 Acting	3	THEA 1100 Oral Interpretation	3
THEA 1400 Script Analysis	3	THEA 1600 Stagecraft	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs.	Sophomore Year - Spring Semester	Hrs.
THEA 1510 Stage Movement	3	General Education	11-12
THEA 2610 Design Fundamentals	3	THEA 1520 Stage Voice	3
General Education	6	Semester Total	14-15
Modern Language Requirement*	3		
Semester Total	15		
Junior Year - Fall Semester	Hrs.	Junior Year - Spring Semester	Hrs.
THEA 3610 Costume Design or 3620 Lighting Des.	3	General Education	6
THEA 3700 Directing	3	Free Choice Electives	4
Minor Coursework	6	Minor Coursework	6
General Education	3	Semester Total	16
Semester Total	15		
Senior Year - Fall Semester	Hrs.	Senior Year - Spring Semester	Hrs.
THEA 3630 Studio Theatre I	1	THEA 4420 Literature & History of the Theatre II	3
THEA 4400 Literature & History of the Theatre I	3	THEA 4730 Studio Theatre II	1
Theatre Elective	3	IGEN 3116, 3224, 3232, 4234, or 4244	3
Minor Coursework	6	Minor Coursework	6
Free Choice Electives	4	Free Choice Electives	3
Semester Total	17	Semester Total	16

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 MAPP test 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

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 theatre, departmentally approved supporting courses, and theatre courses in the student's area of concentration 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.

A concentration in 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. 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 of Theatre 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.

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

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Scholarships

The Department of Theatre offers several scholarships and awards to both incoming freshman and transfer students as well as returning students. Department of Theatre 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, students can both work and learn through student employment opportunities in the scenic and costume shops.

To Learn More

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For admission information, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Theatre Major (Performance Option), B.F.A. Degree (47-366)

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Freshman Year - Fall Semester THEA 1500 Acting THEA 1400 Script Analysis THEA 1600 Stagecraft ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester THEA 1100 Oral Interpretation THEA 1610 Stage Makeup THEA 1520 Stage Voice ENGL 1030 Composition II General Education Semester Total	Hrs. 3 3 3 3 3 15
Sophomore Year - Fall Semester THEA 1510 Stage Movement THEA 2610 Design Fundamentals General Education Semester Total	Hrs. 3 3 9 15	Sophomore Year - Spring Semester THEA 3700 Directing General Education Technical Theatre Course Elective Semester Total	Hrs. 3 8-9 3 14-15
Junior Year - Fall Semester THEA 4310 Principles of Theatre Management THEA 4300 Professional Practices THEA 4400 Literature & History of the Theatre I THEA 3500 or 4500 or 4510 Department-Approved Support Course General Education Semester Total	Hrs. 3 1 3 3 3 3 16	Junior Year - Spring Semester THEA 3500 or 4500 or 4510 THEA 4300 Professional Practices Department-Approved Support Course General Education Technical Theatre Course Elective Semester Total	Hrs. 3 1 3 6 3 16
Senior Year - Fall Semester THEA 3630 Studio Theatre I THEA 4300 Professional Practices Department-Approved Support Course Technical Theatre Course Elective General Education Free Choice Electives Semester Total	Hrs. 1 1 3 3 3 6 17	Senior Year - Spring Semester THEA 4420 Literature & History of the Theatre II THEA 4730 Studio Theatre II THEA 4710 Advanced Directing THEA 4910 Senior Showcase Free Choice Electives IGEN 3116, 3224, 3232, 4234, or 4244 Semester Total	Hrs. 3 1 3 1 4-5 3 15-16

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 MAPP test 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

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. Electives in theatre, departmentally approved supporting courses, and theatre courses in the student's area of concentration round out the program of study.

A concentration in performance might include 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.

A concentration in 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.

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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 Central Missouri theatre students.

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To Learn More

For more information write to the Department of Theatre, Martin Building 113, UCM, Warrensburg, MO 64093; call 660-543-4020; or visit the department's web pages at www.ucmo.edu/theatre/.

For admission information, call 877-SAY-UCMO (877-729-8266) or visit www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Theatre Major (Design/Technology Option), B.F.A. Degree (47-366)

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Freshman Year - Fall Semester THEA 1500 Acting THEA 1400 Script Analysis THEA 1600 Stagecraft ENGL 1020 Composition I General Education Semester Total AE 1400 Freshman Seminar*	Hrs. 3 3 3 3 15 1	Freshman Year -Spring Semester THEA 1100 Oral Interpretation THEA 2610 Design Fundamentals General Education ENGL 1030 Composition II Semester Total	Hrs. 3 3 6 3 15
Sophomore Year - Fall Semester THEA 2620 Costume Technology THEA Performance Elective General Education Semester Total	Hrs. 3 3 9 15	Sophomore Year - Spring Semester THEA 3700 Directing General Education THEA Performance Elective Semester Total	Hrs. 3 9-10 3 15-16
Junior Year - Fall Semester THEA 4310 Principles of Theatre Management THEA 4300 Professional Practices THEA 4400 Literature & History of the Theatre I THEA 4600 Advanced Technical Theatre THEA 3610 Costume Design Dept. Approved Support Course Semester Total	Hrs. 3 1 3 3 3 16	Junior Year - Spring Semester THEA 3600 Scenic Design THEA 4300 Professional Practices Department-Approved Support Course General Education THEA Performance Elective Semester Total	Hrs. 3 1 3 6 3 16
Senior Year - Fall Semester THEA 3630 Studio Theatre I THEA 4300 Professional Practices THEA 4610 Advanced Stage Lighting & Sound Department-Approved Support Course General Education Free Choice Electives Semester Total	Hrs. 1 1 3 3 3 6 17	Senior Year - Spring Semester THEA 3620 Lighting Design THEA 4420 Literature & History of the Theatre II THEA 4730 Studio Theatre II THEA 4910 Senior Showcase IGEN 3116, 3224, 3232, 4234, or 4244 Free Choice Elective Semester Total	Hrs. 3 3 1 1 3 4 15

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 MAPP test 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 and Human Services *Department of Health and Human Performance*

TOURISM

BACHELOR OF SCIENCE DEGREE

University of Central Missouri is one of only a few institutions in the United States to offer a Bachelor of Science in Tourism degree. Established approximately a decade ago, it offers a curriculum to specifically prepare students who aspire to management and planning positions in the tourism industry.

Travel and tourism is the world's largest industry. Tourism is our nation's third largest employer and provides a wide range of professional opportunities. In Missouri, tourism is the second largest revenue-producing industry and provides numerous opportunities for small business.

Career opportunities are in all eight sectors of the tourism industry including: tourism services (government, non-profit, and commercial), adventure and recreation, accommodations, food and beverage, transportation, attractions, travel trade, events and conferences (conventions, exhibitions, fairs, festivals, trade shows and special events).

Classes are to be housed in a modernized facility (\$15 million renovation) to be completed in January 2011.

Student Involvement

Tourism majors have a shared society and have established a student chapter of the Professional Convention Management Association. The

organizations have been instrumental in arranging professional speakers outside the classroom, philanthropic activities, fundraising for member professional opportunities, trips and social opportunities.

Study Abroad Opportunities

Many tourism students have been extremely active in studying abroad while at Central Missouri. Tourism students take advantage of study abroad opportunities including, but not limited to, places such as Europe, Australia, Africa, Thailand, and Fiji. However, studying abroad is not required of the major or the minor.

Internships

Internship opportunities are available both nationally and internationally. Students must work at least 500 hours in the field before interning, take all required major coursework and maintain satisfactory grades and grade point averages, and then work another 500 hours minimum in an approved national or international internship setting. The internship experience has been very effective in improving the overall competitiveness of our graduates in the workplace.

Curriculum

Efforts are made to enhance the traditional delivery of information in

the classroom. Many professionals are brought into the classroom as guest lecturers or to teach classes. Class field trips involve acquainting students with regional experts and regional facilities. The Conference and Convention Planning class usually requires four field trips and meeting at least 50 field professionals. Recent field trips in the Tourism Destinations class included visits to Florida, California and Mexico. Students also engage in classroom projects which assist local communities. Providing real world application of class material and enhancing the spirit of good citizenship are just a few of the program's goals.

To Learn More

For more information about majoring in tourism, contact the Department of Health and Human Performance, UCM, Warrensburg, MO 64093 or call 660-543-4256 or the Tourism Program, Humpheys 224, UCM, Warrensburg, MO 64093 or call 660-543-8932. You can visit the department's web page at www.ucmo.edu/hhp. For admission information, call 877-SAY-UCMO (877-729-8266). Central Missouri's web address is www.ucmo.edu.

University of Central Missouri • Four-Year Academic Guide

Tourism Major, B.S. Degree (43-843)

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<p>Freshman Year - Fall Semester TOUR 1900 Introduction to Tourism General Education ENGL 1020 Composition I BTE 1210 Essentials of Managing Information or LIS 1600 University Library & Research Skills Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs. 3 6 3 2 14 1</p>	<p>Freshman Year - Spring Semester REC 2200 Dev. Recreation & Tourism Programs** General Education GEOG 2212 World Geography BIOL 1004 Introduction to the Sciences: Ecology ENGL 1030 Composition II Semester Total</p>	<p>Hrs. 3 3 3 4 3 16</p>
<p>Sophomore Year - Fall Semester TOUR 3300 Tourism Destinations** HIST 1350 or 1351 U.S. History General Education Semester Total</p>	<p>Hrs. 3 3 6 12</p>	<p>Sophomore Year - Spring Semester TOUR 3500 Microcomputer Appl. for Tourism & Rec. COMM 1000 Public Speaking ECON 1010 Principles of Macroeconomics General Education Semester Total</p>	<p>Hrs. 3 3 3 3 12</p>
<p>Junior Year - Fall Semester REC 4720 Financing Rec. & Tourism Enterprises*** TOUR 4740 Special Events Planning** GEOG 3201 The Cultural Landscape Free Choice Electives Semester Total</p>	<p>Hrs. 3 3 3 6 15</p>	<p>Junior Year - Spring Semester TOUR 3710 Group Tour Operations** HM 4800 Hotel & Restaurant Management Free Choice Elective Semester Total</p>	<p>Hrs. 3 3 9 15</p>
<p>Senior Year - Fall Semester TOUR 4700 Conference & Convention Planning** TOUR 4920 Senior Seminar** Free Choice Electives Semester Total</p>	<p>Hrs. 3 2 10 15</p>	<p>Senior Year - Spring Semester TOUR 4310 International Tourism** TOUR 4720 Tourism Planning & Development** TOUR 4730 Tourism Marketing** General Education Free Choice Elective Semester Total</p>	<p>Hrs. 3 3 3 3 3 15</p>
<p>Summer Semester following Senior Year TOUR 4980 Internship# Semester Total</p>	<p>Hrs. 6 6</p>		

Tourism 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 offered only during the semester indicated.
- ***REC 4720 is offered odd years, fall semester only (2009, 2011, etc.).
- #Prior to enrollment in TOUR 4980, the student must complete a 500-hour field work experience in an approved setting, have a minimum of 2.5 grade-point average in the major, and a minimum overall grade-point average of 2.25.
- This degree program includes 28 hours of free choice electives; a minor is **highly recommended** by the department but is not required. The number of free choice electives will vary if a minor is chosen.
- To satisfy the General Education Assessment Policy students must take the MAPP test 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

Vocational Family and Consumer Science

BACHELOR OF SCIENCE DEGREE

The Bachelor of Science in Education degree in vocational family and consumer science 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 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.

About the Department

The Department of Career and Technology Education at UCM offers bachelor's, master's, and education specialist degrees. The primary purpose of the department is to provide leadership (state, regional, national, international) by conducting research and 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.

Career opportunities vary including college-level instructor, Distributive Education Clubs of America (DECA) teacher/adviser, public or private school teacher, trade, industrial, or health science instructors, and others. The department provides options to develop expertise and advancement in these areas.

The department also hosts the Missouri Center for Career Education (MCCE), which is funded by the Department of Elementary and Secondary Education and serves as the focal point for statewide coordination of communications, products, and services for career education. MCCE's areas of work include: research, curriculum development, professional development, gender equity, and resource@MCCE.

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 Department of Career and Technology Education, 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 FACS, 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; or call 660-543-4452.

University of Central Missouri • Four-Year Academic Guide

Vocational Family and Consumer Sciences Major, B.S. in Ed. Degree (41-272)

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<p>Freshman Year - Fall Semester</p> <p>CFD 1010 Individual & Family Relationships CFD 1220 Child Development General Education MATH ENGL 1020 Composition I CTE 1000 Intro. to Career & Technology Education Semester Total AE 1400 Freshman Seminar*</p>	<p>Hrs.</p> <p>3 3 3 3 3 15 1</p>	<p>Freshman Year - Spring Semester</p> <p>ENGL 1030 Composition II CHEM 1104 Intro. to the Sciences: Chemistry FAME 1450 Textile & Apparel Fabrications I POLS 1510 American Government General Education Technology Semester Total</p>	<p>Hrs.</p> <p>3 4 3 3 2-3 15-16</p>
<p>Sophomore Year - Fall Semester</p> <p>CTE 3110 Financial Management Education FOOD 2322 Food Preparation FAME 2442 Textiles EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology Semester Total</p>	<p>Hrs.</p> <p>3 3 3 2 1 3 15</p>	<p>Sophomore Year - Spring Semester</p> <p>ECEL 3260 Practicum in Child Development D&N 3340 Nutrition BIOL 1003 Introduction to the Sciences: Ecology HIST 1350 or 1351 U.S. History General Education Semester Total</p>	<p>Hrs.</p> <p>1 3 3 3 6 16</p>
<p>Junior Year - Fall Semester</p> <p>CFD 3230 Family Systems & Lifespan Development FACS 3710 Organization of Vocational FACS PSY 4230 Psychology of Adolescence HED 4320 Teaching Sexuality Educ. in the School General Education Semester Total</p>	<p>Hrs.</p> <p>3 3 3 3 3 15</p>	<p>Junior Year - Spring Semester</p> <p>CFD 3240 Parent-Child Interaction PSY 4200 Psychology of Exceptional Children or EDSP 2100 Ed of the Exceptional Child FACS 3120 Family Resource Management Free Choice Elective** General Education Semester Total</p>	<p>Hrs.</p> <p>3 2 3 3 6 17</p>
<p>Senior Year - Fall Semester</p> <p>FAME 4410 Architectural Interiors EDFL 3500 Secondary Teaching & Behavioral Mgt. FLDX 3550 Practicum in Secondary Instruction EDFL 4300 Educational Measurement & Evaluation EDFL 4210 Teaching of Reading in the Sec. School Free Choice Electives** Semester Total</p>	<p>Hrs.</p> <p>3 3 1 2 2 3 14</p>	<p>Senior Year - Spring Semester</p> <p>FACS 4725 Secondary Field Experience II FACS 4740 Methods of Teaching Vocational Family & Consumer Sciences FLDX 4595 Student Teaching Secondary I ICAP 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs.</p> <p>1 3 5 4 13</p>

Vocational Family and Consumer Science Major, B.S. in Ed. 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.
- **Recommended free choice electives include: BTE 4501, D&N 4250, FAME 1420, 2430, 2450, FOOD 3332, HED 1100, 4310, 4330, HM 2830, and INST 4400.
- Certification to teach vocational 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 and prior to taking 4000-level Education courses.
- See 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.